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00426-1019

MATERIAL SAFETY DATA SHEET

(7987-03)

FOR COATINGS, RESINS AND RELATED MATERIALS
(Approved by U.S. Department of Labor "Essentially Similar" to Form OSHA 20)

HOBBY KIT

The John G. Marshall Mfg. Co., Inc.
 P.O. Box 649
 Deerfield, IL 60015

DATE OF PREP
2-1-83

EMERGENCY TELEPHONE NO. 312-478-7111 (DAY)
 INFORMATION TELEPHONE NO. 312-478-7111

SECTION I

PRODUCT NUMBER: 044
 PRODUCT NAME: Extender Photo Oil
 PRODUCT CLASS: Color in oil.

SECTION II — HAZARDOUS INGREDIENTS

INGREDIENT	CAS #	PERCENT	OCCUPATIONAL EXPOSURE LIMITS		VAPOR PRESSURE		TOXICITY DATA
			TLV	PEL	mm	Hg	
Alucina Hydrate	21645-51-2	40.9%	High (IPR)				TDL. 122 mg/kg/4D
Ethyl Alcohol	64-17-5	> 0.5%	1000 PPM		40		TDL. 50 mg/kg

V 21157

SECTION III — PHYSICAL DATA

BOILING RANGE: N/A
 VAPOR DENSITY: HEAVIER LIGHTER THAN AIR
 VAPORATION RATE: FASTER THAN ETHER SLOWER THAN ETHER
 PERCENT VOLATILE BY VOLUME: 0.5%
 WEIGHT PER GALLON: 9.8 lbs/gal.

SECTION IV — FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION: OSHA III A DOT _____ FLASH POINT: 149°F. LEL: ---
 EXTINGUISHING MEDIA: FOAM "ALCOHOL" FOAM CO₂ DRY CHEMICAL WATER OTHER FOG

UNUSUAL FIRE AND EXPLOSION HAZARDS: Rags and waste paper containing this material may heat and burn spontaneously. Store wiping materials in metal cans with tight lids: soak with water.

SPECIAL FIREFIGHTING PROCEDURES: Avoid use of water, but if only alternative, implement Use water to keep fire-exposed containers cool.

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SECTION V — HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE: Inhalation of product may cause mild irritation of nose and throat. Eye contact may cause redness and tearing. Sensitive individuals may experience dermatitis, after long exposure on skin. Ingestion of large amounts may cause gastro-intestinal upset.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: None reported.

PRIMARY ROUTE(S) OF ENTRY: DERMAL INHALATION INGESTION

EMERGENCY AND FIRST AID PROCEDURES: EYE CONTACT: Flush with clean lukewarm water for at least 15 minutes, occasionally lifting eyelids. SKIN CONTACT: May be removed from skin with waterless cleaner followed by washing with soap and warm water.

INHALATION: Expose individual to fresh air source. INGESTION: Keep person warm and quiet; seek medical advice for prevention of possible dehydration.

SECTION VI — REACTIVITY DATA

STABILITY: UNSTABLE STABLE Spontaneous combustion can occur.

HAZARDOUS POLYMERIZATION: MAY OCCUR WILL NOT OCCUR

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition may yield carbon dioxide and/or carbon monoxide.

CONDITIONS TO AVOID: Keep from contact with oxidizing materials.

COMPATIBILITY (MATERIALS TO AVOID): Avoid contact with strong oxidizing agents: violent reaction with Cl_2 , chlorinated rubber.

SECTION VII — SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Small spills can 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 containers and salvaged.

WASTE DISPOSAL METHOD: Carefully incinerate or use secure landfill or special waste landfill in accordance with local, state and federal regulations.

SECTION VIII — SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION: Not normally needed.

VENTILATION: Intermittent clean air exchanges recommended.

PROTECTIVE GLOVES: Neoprene rubber gloves.

FACE PROTECTION: Safety glasses.

OTHER PROTECTIVE EQUIPMENT: Prevent repeated or prolonged skin contact.

HYGIENIC PRACTICES: Eyewashes in the workplace are recommended.

SECTION IX — SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Avoid accumulation of contaminated rags or wiping materials by immediate immersion in water.

OTHER PRECAUTIONS: 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

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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

10/20/00 00:00 FAX 800 702 4111

BRANDESS KALT AETNA GROUP

10/003

MARSHALL PM SOLUTION**PAGE 2****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.

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MATERIAL SAFETY DATA SHEET

Ashland Chemical Co.

Page 001

Date Prepared: 01/25/98

Date Printed: 01/29/98

MSDS No: 999.0283259-034.009

WS 9320
MARLENE SOLUTION

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Material Identity
Product Name: WS 9320
General or Generic ID: BLENDCompany
Ashland Chemical Co.
P.O. Box 2219
Columbus, OH 43216
614-790-3332Emergency Telephone Number:
1-800-ASHLAND (1-800-274-5263)
24 hours everyday
Regulatory Information Number:
1-800-325-3751

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient(s)	CAS Number	% (by volume)
TRICHLOROETHYLENE	79-01-6	55.0
ISOPROPANOL	67-63-0	45.0

3. HAZARDS IDENTIFICATION

Potential Health Effects

Eye

Can cause eye irritation. Symptoms include stinging, tearing, redness, and swelling of eyes.

Skin

Can cause skin irritation. Prolonged or repeated contact may dry the skin. Symptoms may include redness, burning, and drying and cracking of skin, burns and other skin damage. Additional symptoms of skin contact may include: numbness of the fingers when they are immersed in this material, Passage of this material into the body through the skin is possible, but it is unlikely that this would result in harmful effects during safe handling and use.

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Swallowing

Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful. This material can get into the lungs during swallowing or vomiting. This results in lung inflammation and other lung injury.

Inhalation

Breathing of vapor or mist is possible. Breathing small amounts of this material during normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful. Symptoms usually occur at air concentrations higher than the recommended exposure limits (See Section 8). Alcohol consumed before or after exposure may worsen harmful effects.

Symptoms of Exposure

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: stomach or intestinal upset (nausea, vomiting, diarrhea) irritation (nose, throat, airways), cough, central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness), muscle weakness, low blood pressure, mild, temporary changes in the liver, effects on heart rate, respiratory depression (slowing of the breathing rate), loss of coordination, confusion, irregular heartbeat, lung edema (fluid buildup in the lung tissue), kidney damage, coma, and death.

Target Organ Effects

Persons exposed to trichloroethylene may become intolerant to alcohol with small quantities causing drunkenness and skin blotches. Studies on trichloroethylene-exposed workers indicate that overexposure to this chemical may result in involuntary eye movement, tremors, sleep disturbances, symptoms of central nervous system (CNS) depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness), and other CNS effects. Brief or prolonged exposure to trichloroethylene and its decomposition products (e.g. dichloroacetylene) has been associated with cranial neuropathy (characterized by facial numbness), although it isn't clear which agent is responsible for the 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: mild, reversible liver effects, liver abnormalities, effects on hearing, 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,

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and may aggravate pre-existing disorders of these organs: liver abnormalities, anemia, lung damage

Developmental Information

This material (or a component) has been shown to cause harm to the fetus in laboratory animal studies. Harm to the fetus occurs only at exposure levels that harm the pregnant animal. The relevance of these findings to humans is uncertain.

Cancer Information

This material (or a component) is listed as a carcinogen by the International Agency for Research on Cancer. Several epidemiology studies have found no increase in cancer incidence in groups exposed to trichloroethylene. In two later studies, exposure to trichloroethylene has been associated with slight increases in certain types of cancer (liver, kidney, non-Hodgkins lymphoma, biliary tract). Cancer incidence in these studies did not increase with increasing estimated trichloroethylene exposure levels. Some studies with trichloroethylene in laboratory animals have produced cancer (primarily liver and/or lung), while others have not.

Other Health Effects

No data

Primary Route(s) of Entry

Inhalation, Skin absorption, Skin contact, Eye 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. Flush exposed area with large amounts of water. If skin is damaged, seek immediate medical attention. If skin is not damaged and symptoms persist, seek medical attention. Launder clothing before reuse.

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Swallowing

Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. 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 arrhythmias. Sympathomimetic drugs may initiate cardiac arrhythmias in persons exposed to this material. This material is an aspiration hazard. Potential danger from aspiration must be weighed against possible oral toxicity (See Section 3 - Swallowing) when deciding whether to induce vomiting. Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material: skin, lung (for example, asthma-like conditions), liver, kidney, central nervous system, nervous system, spleen, auditory system. Exposure to this material may aggravate any preexisting condition sensitive to a decrease in available oxygen, such as chronic lung disease, coronary artery disease or anemias. Individuals with preexisting heart disorders may be more susceptible to arrhythmias (irregular heartbeats) if exposed to high concentrations of this material.

5. FIRE FIGHTING MEASURES**Flash Point**

58.0 - 70.0 F (10.0 - 21.1 C) TCC

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Explosive Limit

(for component) Lower 2.8 %

Autoignition Temperature

No data

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.

Extinguishing Media

regular foam, water fog, carbon dioxide, dry chemical.

Fire Fighting Instructions

Wear a 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

6. ACCIDENTAL RELEASE MEASURES

Small Spill

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

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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.

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. Emergency eyewash fountains and safety showers should be available in the immediate vicinity of potential exposure. 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 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 safety glasses. Consult your safety representative.

Skin Protection

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

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

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

ISOPROPANOL (57-53-0)
OSHA VPEL 400.000 ppm - TWA
OSHA VPEL 500.000 ppm - STEL
ACGIH TLV 400.000 ppm - TWA
ACGIH TLV 500.000 ppm - STEL

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9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point

(for component) 180.0 F (82.2 C) @ 760 mmHg

Vapor Pressure

(for component) 50.000 mmHg @ 58.00 F

Specific Vapor Density

> 1.000 @ AIR=1

Specific Gravity

1.156 @ 77.00 F

Liquid Density

9.520 lbs/gal @ 77.00 F

1.156 kg/l @ 25.00 C

Percent Volatiles

100.0 %

Evaporation Rate

SLOWER THAN ETHYL ETHER

Appearance

No data

State

LIQUID

Physical Form

HOMOGENEOUS SOLUTION

Color

No data

Odor

No data

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pH

Not applicable

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 alkalis, strong oxidizing agents.

11. TOXICOLOGICAL INFORMATION

No data

12. ECOLOGICAL INFORMATION

No data

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, LIQUID,3,NA1993,II

Container/Mode:
 55 GAL DRUM/TRUCK PACKAGE

NOS Component:
 ISOPROPANOL

RQ (Reportable Quantity) - 49 CFR 172.101
 Product Quantity (lbs) Component

 144 TRICHLOROETHYLENE

15. REGULATORY INFORMATION

US Federal Regulations
 TSCA (Toxic Substances Control Act) Status
 TSCA (UNITED STATES) The intentional ingredients of this
 product are listed.

CERCLA RQ - 40 CFR 302.4(a)
 Component RQ (lbs)

 TRICHLOROETHYLENE 100

SARA 302 Components - 40 CFR 355 Appendix A
 None

Section 311/312 Hazard Class - 40 CFR 370.2
 Immediate(X) Delayed(X) Fire(X) Reactive() Sudden
 Release of Pressure()

SARA 313 Components - 40 CFR 372.65
 Section 313 Component(s) CAS Number %

 TRICHLOROETHYLENE 79-01-6 55.00

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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 1985: This product contains the following substance(s) known to the state of California to cause cancer.
TRICHLOROETHYLENE

New Jersey RTK Label Information

TRICHLOROETHYLENE
ISOPROPYL ALCOHOL

79-01-6

67-53-0

Pennsylvania RTK Label Information

ETHENE, TRICHLORO-
2-PROPANOL

79-01-6

67-53-0

15. 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.

Last page

SOURCE: ASHLAND INC WTR EASYWTR

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SPECTRA
DYES

SPECTRA COLORS CORP.
BACHMEIER COLORS DIV.
25 RIZZOLO ROAD
KEARNY, NJ 07032

BACO
DYES

PHONE: 201-997-0506 - FAX 201-997-0504

DATE JUL 27, 1991

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2.AC.W6510

MATERIAL SAFETY DATA SHEET

SECTION I IDENTIFICATION:

Spectra Number Product Name
2.AC.W6510 SPECACID PURE ORANGE A12876

Color Index Name
ACID ORANGE A12876

C. A. S. No.: Chemical Family
MIXTURE MONOAZO DYES

Color Index No.:
NONE

WARNING - CAUTION:

Handle with CARE. AVOID over exposure. Use NIOSH/OSHA APPROVED
RESPIRATOR, WORK GLOVES and CLOTHING. WASH after handling.
SENSITIVE INDIVIDUALS MAY EXPERIENCE RESPIRATORY ALLERGIES. MAY
CAUSE SKIN IRRITATION. USE WITH LOCAL VENTILATION.

SECTION II - HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

COMPONENT CAS NO. % HAZARD
SARA TITLE III, Section 313: NOT LISTED

SECTION III - PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point ND Specific Gravity (H2O=1) ND
Vapor Pressure (MM HG) - H2O ND Melting Point ND
Vapor Density (AIR=1) ND Evaporation Rate (BUTYL ACET=1) ND
Molecular Weight ND PH Factor ND
Solubility in water SOLUBLE
Appearance and Odor POWDER NO ODOR

SECTION IV - HEALTH HAZARD DATA: (ACUTE & CHRONIC)

Effects of overexposure:

Moderately irritation to eyes & skin may result on contact.
Ingestion may result in gastric disturbances.
Inhalation of dusts may irritate the respiratory tract.

Inhalation: YES
Skin: YES
Ingestion: YES
Eyes: YES

Signs and symptoms of overexposure:

Overexposed person may notice coloration of skin (same color as
handled). Possible irritation.

Medical conditions generally aggravated by exposure:

No data available on skin contact or inhalation.
Persons with impaired pulmonary function or skin disorders may
be more susceptible to the effects of this product or any type of
dusty material. HANDLE WITH CARE, AVOID OVEREXPOSURE.

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Carcinogenicity NTP: NO
IARC: NO
OSHA Regulated: NO

Exposure Limits:

No exposure limits have been determined or found in existing published studies. It is suggested that this product be used in accordance with good industrial practices. HANDLE THIS PRODUCT WITH CARE. AVOID PERSONAL CONTACT

Toxicity Data:

Oral (Animal): NO DATA AVAILABLE.
Dermal (Animal): NO DATA AVAILABLE.
Inhalation (Animal): NO DATA AVAILABLE.
Effects to eyes (Animal): NO DATA AVAILABLE.
Skin Irritation (Animal): NO DATA AVAILABLE.
Fish, LC50 (Lethal): NO DATA AVAILABLE.
Additional Data: NO DATA AVAILABLE

HMS Code:

H:1 OVER EXPOSURE MAY CAUSE IRRITATION.
F:0 NORMALLY STABLE.
R:0 STABLE.
P:0 NIOSH / OSHA APPROVED DUST RESPIRATOR, GLOVES, APRON, & GOGGLES.

SECTION V - EMERGENCY AND FIRST-AID PROCEDURES:

EYE CONTACT: Flush with plenty of cool water for at least 15 minutes, holding eyelids apart for thorough irrigation. Get immediate medical attention.
SKIN CONTACT: Wash affected area thoroughly with soap and water. If any irritation develops, consult a physician.
INHALATION: Remove to fresh air. If breathing is difficult, give oxygen and get immediate medical attention.
INGESTION: Induce vomiting - seek immediate medical attention

SECTION VI - FIRE AND EXPLOSION HAZARD DATA:

Flash Point F (C): NORMALLY STABLE, NOT COMBUSTIBLE NOR FLA
Flammable Limits: NORMALLY STABLE, NOT COMBUSTIBLE NOR FLA
Extinguishing Media: WATER, DRY CHEMICAL, CARBON DIOXIDE, FOAM
Special Fire Fighting Procedures: WEAR SELF-CONTAINED BREATHING APPARATUS.
Unusual Fire & Explosion Procedures: NONE EXPECTED. FIREFIGHTERS SHOULD BE EQUIPPED WITH SELF-CONTAINED BREATHING APPARATUS TO GUARD AGAINST POTENTIALLY TOXIC AND IRRITATING FUMES. AVOID DUSTING. DUST CAN FORM EXPLOSIVE MIXTURES WITH AIR.

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SECTION VII - REACTIVITY DATA:

Stability:

STABLE

Polymerization:

HAZARDOUS POLYMERIZATION WILL NOT OCCUR.

Conditions and Materials to avoid:

OXIDIZING & REDUCING AGENTS MAY DESTROY COLOR.

Hazardous Decomposition Products:

CO, CO2, OXIDES OF NITROGEN AND OTHER POTENTIALLY TOXIC FUMES.

SECTION VIII - CONTROL MEASURES:

Environmental:

Avoid any uncontrolled release of material.

Precautions:

Where spills are possible a comprehensive spill response plan should be developed and implemented.

Steps to be taken if material is released or spilled

Utilize recommended protective clothing and equipment. Spills should be swept up using an absorbant dust control product and placed in containers. Spill area can be washed with water. Collect water for approved disposal. In the event of an uncontrolled release of this material the user should determine if the release is reportable under applicable laws and regulations.

CERCLA: NOT REGULATED.

RCRA status: NOT REGULATED.

Section 302: NOT REGULATED.

Section 313: NOT REGULATED.

NO.

THIS PRODUCT IS NOT HAZARDOUS AS DEFINED BY HAZARDOUS COMMUNICATION STANDARD. HOWEVER, AS WITH ALL CHEMICALS, HANDLE WITH CARE. AVOID EYES & SKIN CONTACT. AVOID INHALATION OF DUSTS OR VAPORS. WASH THOROUGHLY AFTER HANDLING. KEEP CONTAINERS CLOSED.

SECTION IX - PRECAUTIONS FOR SAFE HANDLING & USE:

Respiratory Protection:

Use an OSHA/NIOSH approved dust mask/respirator

Ventilation:

Local exhaust is preferred and most effective. Mechanical and general ventilation is less effective. Use natural ventilation if possible.

Protective gloves:

Plastic or rubber gloves.

Eye Protection:

Safety goggles or full face shield.

Protective clothing/equip:

Coveralls & non-leather soled work shoes

Work/hygenic practices:

Wash eye contaminated clothes & skin

Special precautions :

with mild soaps and detergents
In accordance with good industrial practice, handle this product with care and avoid personal contact.

SECTION X - TRANSPORTATION INFORMATION

D.O.T. Shipping Name :

NONE

Technical Shipping Name :

ACID ORANGE A12876

D.O.T. Hazard Class :

NONE

UN/NA Number :

Product Reportable Qty :

NONE

D.O.T. Labels Required :

NONE

D.O.T. Placards :

NONE

Freight Class Bulk :

DYES, DRY EARTH PAINTS CLASS 55

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DATE JUL 27, 1991 PAGE 04 2.AC.W5510
Freight Class Package : DYES, DRY EARTH PAINTS CLASS 55
Product Label : SPECACID PURE ORANGE A 2876

SECTION XI - REGULATORY INFORMATION:

TSCA : IN COMPLIANCE
SARA : NOT REPORTABLE
Acute NO
Chronic NO
Flammable NO
Reactive NO
Oxidizer NO

THIS PRODUCT AND/OR INGREDIENTS USED TO MAKE THIS PRODUCT ARE LISTED IN THE U.S.C.A. CHEMICAL SUBSTANCES INVENTORY. THE INFORMATION AND RECOMMENDATIONS CONTAINED HEREIN ARE BASED UPON DATA BELIEVED TO BE CORRECT. HOWEVER, NO GUARANTEE OR WARRANTY OF ANY KIND OR IMPLIED IS MADE WITH RESPECT TO THE INFORMATION CONTAINED HEREIN. THIS M.S.D.S. WAS PREPARED TO COMPLY WITH THE OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200). THIS SUPERSEDES ANY PREVIOUS INFORMATION.

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MATERIAL SAFETY DATA SHEET

The John G. Marshall Mfg. Co., Inc.
P.O. Box 649

Deerfield, IL 60015

EMERGENCY TELEPHONE NO. 312-478-7111 (DAY)

DATE OF PREP

7-1-88

INFORMATION TELEPHONE NO. 312-478-7111

SECTION I

PRODUCT NUMBER: #7

PRODUCT NAME: Cadmium Yellow Photo Oil Colors

PRODUCT CLASS: Color in Oil.

SECTION II — HAZARDOUS INGREDIENTS

INGREDIENT	CAS #	PERCENT	OCCUPATIONAL EXPOSURE LIMITS		VAPOR PRESSURE		TOXICITY DATA
			TLV	PEL	mm	Hg	
Ethyl Alcohol	64-17-5	<0.5%	1000 PPM		40		TDL. 50mg/kg
Alumina Hydrate	21645-51-2	6.6%	High (IPR)				TDL. 122 mg/kg/40
Cadmium Zinc Sulfide	8048-07-5	48.2%	.05mg/m ³	.02 mg/m ³			LD ₅₀ 5g/kg

SECTION III — PHYSICAL DATA

BOILING RANGE: N/A VAPOR DENSITY: HEAVIER LIGHTER THAN AIR
 EVAPORATION RATE: FASTER THAN ETHER PERCENT VOLATILE BY VOLUME: 0.5%
 SLOWER THAN ETHER WEIGHT PER GALLON: 12.9 lbs/gal.

SECTION IV — FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION: OSHA IIIA FLASH POINT: 152°F LEL:
 DOT _____
 EXTINGUISHING MEDIA: FOAM "ALCOHOL" FOAM CO₂ DRY CHEMICAL WATER OTHER FOG

UNUSUAL FIRE AND EXPLOSION HAZARDS: Rags and waste paper containing this material may heat and burn spontaneously. Store wiping materials in metal cans with tight lids; soak with water.

SPECIAL FIREFIGHTING PROCEDURES: Avoid use of water, but if only alternative, implement. Use water to keep fire-exposed containers cool. Overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention. Full protection equipment including self-contained breathing apparatus should be used.

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SECTION V - HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE: Repeated and prolonged inhalation or ingestion of Cadmium Compounds may cause delayed effects involving the respiratory and renal systems. Eye contact may cause redness and tearing. Sensitive individuals may experience dermatitis, after long exposure on skin.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: Not available. Not believed to be acutely toxic. May cause effects of chronic Cadmium toxicity.

PRIMARY ROUTE(S) OF ENTRY: DERMAL INHALATION INGESTION

EMERGENCY AND FIRST AID PROCEDURES: INGESTION: Give large quantities of water, induce vomiting. Call a physician. EYE CONTACT: Flush with clean lukewarm water for at least 15 minutes, occasionally lifting eyelids. SKIN CONTACT: May be removed from skin with waterless cleaner followed by washing with soap and warm water. INHALATION: Expose individual to fresh air source.

SECTION VI - REACTIVITY DATA

STABILITY: UNSTABLE STABLE Spontaneous combustion can occur.

HAZARDOUS POLYMERIZATION: MAY OCCUR WILL NOT OCCUR

HAZARDOUS DECOMPOSITION PRODUCTS: Fire conditions or above 1000°F may emit SO2 Gas and Cadmium Oxide fumes. H2S gas in contact with strong acids

CONDITIONS TO AVOID: Fire conditions and contact with strong acids. Sanding of films can create dust containing Cadmium, use respirator.

INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizing agents, acids, violent reaction with Cl2 Chlorinated rubber.

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Small spills can be picked up with absorbent material, transferred into closed metal container for disposal as hazardous waste. Large spills can be scooped up and salvaged.

WASTE DISPOSAL METHOD: Treat as hazardous material. Dispose of in accordance with Federal, State and Local Regulations.

SECTION VIII - SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION: Not normally needed unless product is being sprayed; then use respiratory devices approved by NIOSH/MESA for protection against spray mist and vapors.

VENTILATION: Intermittent clean air exchanges recommended.

PROTECTIVE GLOVES: Neoprene rubber gloves.

EYE PROTECTION: Safety Glasses

OTHER PROTECTIVE EQUIPMENT: Wash contaminated clothing, discard contaminated shoes.

HYGIENIC PRACTICES: Wash thoroughly before eating, smoking, or chewing gum. Do not apply product to face or hands.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Do not store near any food or food products. Avoid accumulation of contaminated rags or wiping materials by immediately soaking them in water and collect in metal container for disposal.

OTHER PRECAUTIONS: 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 any way connected with the handling, storage, use or disposal of this product.

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MATERIAL SAFETY DATA SHEET

FOR COATINGS, RESINS AND RELATED MATERIALS
(Approved by U.S. Department of Labor "Essentially Similar" to Form OSHA 20)

The John G. Marshall Mfg. Co., Inc.
P.O. Box 649
Deerfield, IL 60015

DATE OF PREP
2-1-88

EMERGENCY TELEPHONE NO. 312-478-7111 (DAY)
INFORMATION TELEPHONE NO. 312-478-7111

SECTION I

PRODUCT NUMBER: #9
PRODUCT NAME: Carmine Photo Oil Color
PRODUCT CLASS: Color in oil.

SECTION II — HAZARDOUS INGREDIENTS

INGREDIENT	CAS #	PERCENT	OCCUPATIONAL EXPOSURE LIMITS		VAPOR PRESSURE	TOXICITY DATA
			TLV	PEL		
Ethyl Alcohol	64-17-3	> 0.5%	1000 PPM		40	TDL. 50/mg/kg
Alumina Hydrate	21645-51-2	15.1%	High (IPB)			TDL. 122 mg/kg/4D

SECTION III — PHYSICAL DATA

BOILING RANGE: N/A VAPOR DENSITY: HEAVIER LIGHTER THAN AIR
EVAPORATION RATE: FASTER THAN ETHER PERCENT VOLATILE BY VOLUME: 0.5%
 SLOWER THAN ETHER WEIGHT PER GALLON: 9.0 lbs/gal.

SECTION IV — FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION: OSHA III A FLASH POINT: 142°F LEL: ----
DOT
EXTINGUISHING MEDIA: FOAM "ALCOHOL" FOAM CO₂ DRY CHEMICAL WATER OTHER FOG
UNUSUAL FIRE AND EXPLOSION HAZARDS: Rags and waste paper containing this material may heat and burn spontaneously. Store wiping materials in metal cans with tight lids: soak with water.
SPECIAL FIREFIGHTING PROCEDURES: Avoid use of water, but if only alternative, implement. Use water to keep fire-exposed containers cool.

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SECTION V — HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE: Inhalation of product may cause mild irritation of nose and throat. Eye contact may cause redness and tearing. Sensitive individuals may experience dermatitis, after long exposure on skin. Ingestion of large amounts may cause gastro-intestinal upset.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: None reported.

PRIMARY ROUTE(S) OF ENTRY: DERMAL INHALATION INGESTION

EMERGENCY AND FIRST AID PROCEDURES: **EYE CONTACT:** Flush with clean lukewarm water for at least 15 minutes, occasionally lifting eyelids. **SKIN CONTACT:** May be removed from skin with waterless cleaner followed by washing with soap and warm water. **INHALATION:** Expose individual to fresh air source. **INGESTION:** Keep person warm and quiet; seek medical advice for prevention of possible dehydration.

SECTION VI — REACTIVITY DATA

STABILITY: UNSTABLE STABLE Spontaneous combustion can occur.

HAZARDOUS POLYMERIZATION: MAY OCCUR WILL NOT OCCUR

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition may yield carbon dioxide and/or carbon monoxide, ammonia, NO_x.

CONDITIONS TO AVOID: Keep from contact with oxidizing materials.

INCOMPATIBILITY (MATERIALS TO AVOID): Avoid contact with strong oxidizing agents; violent reaction with Cl₂, chlorinated rubber.

SECTION VII — SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Small spills can 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 containers and salvaged.

WASTE DISPOSAL METHOD: Carefully incinerate or use secure landfill or special waste landfill in accordance with local, state and federal regulations.

SECTION VIII — SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION: Not normally needed.

VENTILATION: Intermittent clean air exchanges recommended.

PROTECTIVE GLOVES: Neoprene rubber gloves.

EYE PROTECTION: Safety glasses.

OTHER PROTECTIVE EQUIPMENT: Prevent repeated or prolonged skin contact.

HYGIENIC PRACTICES: Eyewashes in the workplace are recommended.

SECTION IX — SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Avoid accumulation of contaminated rags or wiping materials by immediate immersion in water.

OTHER PRECAUTIONS: 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. Data in this Material Safety Data Sheet is accurate and reliable to the best of our knowledge and belief and relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

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MATERIAL SAFETY DATA SHEETFOR COATINGS, RESINS AND RELATED MATERIALS
(Approved by U.S. Department of Labor "Essentially Similar" to Form OSHA 20)The John G. Marshall Mfg. Co., Inc.
P.O. Box 649
Deerfield, IL 60015DATE OF PREP
2-1-88EMERGENCY TELEPHONE NO. 312-478-7111 (DAY)
INFORMATION TELEPHONE NO. 312-478-7111**SECTION I**PRODUCT NUMBER: #11
PRODUCT NAME: Cheek Photo Oil Color
PRODUCT CLASS: Color in oil.**SECTION II — HAZARDOUS INGREDIENTS**

INGREDIENT	CAS #	PERCENT	OCCUPATIONAL EXPOSURE LIMITS		VAPOR PRESSURE		TOXICITY DATA
			TLV	PEL	mm	Hg	
Ethyl Alcohol	64-17-5	>0.5%	1000 PPM		40		TDL. 50 mg/kg
Alumina Hydrate	21645-51-2	31.1%	High (IPR)				TDL. 122 mg/kg/4D

SECTION III — PHYSICAL DATABOILING RANGE: N/A
EVAPORATION RATE: FASTER THAN ETHER
 SLOWER THAN ETHER
VAPOR DENSITY: HEAVIER LIGHTER THAN AIR
PERCENT VOLATILE BY VOLUME: 0.5%
WEIGHT PER GALLON: 9.8 lbs/gal.**SECTION IV — FIRE AND EXPLOSION HAZARD DATA**FLAMMABILITY CLASSIFICATION: OSHA III A
FLASH POINT: 152°F. LEL: ----
DOT: _____
EXTINGUISHING MEDIA: FOAM "ALCOHOL" FOAM CO₂ DRY CHEMICAL WATER OTHER FOG
UNUSUAL FIRE AND EXPLOSION HAZARDS: Rags and waste paper containing this material may heat and burn spontaneously. Store wiping materials in metal cans with tight lids: soak with water.
SPECIAL FIREFIGHTING PROCEDURES: Avoid use of water, but if only alternative, implement use water to keep fire-exposed containers cool.

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SECTION V — HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE: Inhalation of product may cause mild irritation of nose and throat. Eye contact may cause redness and tearing. Sensitive individuals may experience dermatitis, after long exposure on skin. Ingestion of large amounts may cause gastro-intestinal upset.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: None reported.

PRIMARY ROUTE(S) OF ENTRY: DERMAL INHALATION INGESTION

EMERGENCY AND FIRST AID PROCEDURES: EYE CONTACT: Flush with clean lukewarm water for at least 15 minutes, occasionally lifting eyelids. SKIN CONTACT: May be removed from skin with waterless cleaner followed by washing with soap and warm water. INHALATION: Expose individual to fresh air source. INGESTION: Keep person warm and quiet; seek medical advice for prevention of possible dehydration.

SECTION VI — REACTIVITY DATA

STABILITY: UNSTABLE STABLE Spontaneous combustion can occur.

HAZARDOUS POLYMERIZATION: MAY OCCUR WILL NOT OCCUR

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition may yield carbon dioxide and/or carbon monoxide, ammonia, NO_x.

CONDITIONS TO AVOID: Keep from contact with oxidizing materials.

INCOMPATIBILITY (MATERIALS TO AVOID): Avoid contact with strong oxidizing agents: violent reaction with Cl₂, chlorinated rubber.

SECTION VII — SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Small spills can 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 containers and salvaged.

WASTE DISPOSAL METHOD: Carefully incinerate or use secure landfill or special waste landfill in accordance with local, state and federal regulations.

SECTION VIII — SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION: Not normally needed.

VENTILATION: Intermittent clean air exchanges recommended.

PROTECTIVE GLOVES: Neoprene rubber gloves.

EYE PROTECTION: Safety glasses.

OTHER PROTECTIVE EQUIPMENT: Prevent repeated or prolonged skin contact.

HYGIENIC PRACTICES: Eyewashes in the workplace are recommended.

SECTION IX — SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Avoid accumulation of contaminated rags or wiping materials by immediate immersion in water.

OTHER PRECAUTIONS: 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.

Information in this Material Safety Data Sheet is accurate and reliable to the best of our knowledge and belief and relates only to the specific material design. It does not relate to use in combination with any other material or in any process.

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MATERIAL SAFETY DATA SHEETFOR COATINGS, RESINS AND RELATED MATERIALS
(Approved by U.S. Department of Labor "Essentially Similar" to Form OSHA 201)

The John G. Marshall Mfg. Co., Inc.

P.O. Box 649

Deerfield, IL 60015

DATE OF PREP

2-1-88

EMERGENCY TELEPHONE NO. 312-478-7111 (DAY)

INFORMATION TELEPHONE NO. 312-478-7111

SECTION I

PRODUCT NUMBER: #12

PRODUCT NAME: Chinese Blue Photo Oil Color.

PRODUCT CLASS: Color in oil.

SECTION II — HAZARDOUS INGREDIENTS

INGREDIENT	CAS #	PERCENT	OCCUPATIONAL EXPOSURE LIMITS		VAPOR PRESSURE		TOXICITY DATA
			TLV	PEL	mm	Hg	
Ethyl Alcohol	64-17-5	>0.5%	1000 PPM		40		TDL _o 50 mg/kg
Alumina Hydrate	21645-51-2	37.5%	High (IPR)				TDL _o 122 mg/kg/4D

SECTION III — PHYSICAL DATA

BOILING RANGE: N/A

VAPOR DENSITY: HEAVIER LIGHTER THAN AIREVAPORATION RATE: FASTER THAN ETHER

PERCENT VOLATILE BY VOLUME: 0.5%

 SLOWER THAN ETHER

WEIGHT PER GALLON: 10.9 lbs/gal.

SECTION IV — FIRE AND EXPLOSION HAZARD DATAFLAMMABILITY CLASSIFICATION: OSHA III A
DOT _____

FLASH POINT: 147°F.

LEL: ---

EXTINGUISHING MEDIA: FOAM "ALCOHOL" FOAM CO₂ DRY CHEMICAL WATER OTHER FOG

UNUSUAL FIRE AND EXPLOSION HAZARDS: Rags and waste paper containing this material may heat and burn spontaneously. Store wiping materials in metal cans with tight lids: soak with water.

SPECIAL FIREFIGHTING PROCEDURES: Avoid use of water, but if only alternative, implement Use water to keep fire-exposed containers cool.

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SECTION V — HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE: Repeated and prolonged inhalation or ingestion of Cadmium Compounds may cause delayed effects involving the respiratory and renal systems. Eye contact may cause redness and tearing. Sensitive individuals may experience dermatitis, after long exposure on skin.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: Not available. Not believed to be acutely toxic. May cause effects of chronic Cadmium toxicity.

PRIMARY ROUTE(S) OF ENTRY: DERMAL INHALATION INGESTION

EMERGENCY AND FIRST AID PROCEDURES: **INGESTION:** Give large quantities of water, induce vomiting. Call a physician. **EYE CONTACT:** Flush with clean lukewarm water for at least 15 minutes, occasionally lifting eyelids. **SKIN CONTACT:** May be removed from skin with waterless cleanser followed by washing with soap and warm water. **INHALATION:** Escort individual to fresh air source.

SECTION VI — REACTIVITY DATA

STABILITY: UNSTABLE STABLE Spontaneous combustion can occur.

HAZARDOUS POLYMERIZATION: MAY OCCUR WILL NOT OCCUR

HAZARDOUS DECOMPOSITION PRODUCTS: Fire conditions or above 1000°F may emit SO₂ Gas and Cadmium Oxide fumes. H₂S gas in contact with strong acids. **CONDITIONS TO AVOID:** Fire conditions and contact with strong acids. Handling of films can create dust containing Cadmium, use respirator.

INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizing agents, acids, violent reaction with Cl₂ Chlorinated rubber.

SECTION VII — SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Small spills can be picked up with absorbent material, transferred into closed metal container for disposal as hazardous waste. Large spills can be scooped up and salvaged.

WASTE DISPOSAL METHOD: Treat as hazardous material. Dispose of in accordance with Federal, State and Local Regulations.

SECTION VIII — SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION: Not normally needed unless product is being sprayed; then use respiratory device approved by NIOSH/MSHA for protection against spray mist and vapors.

VENTILATION: Intermittent clean air exchanges recommended.

PROTECTIVE GLOVES: Neoprene rubber gloves.

EYE PROTECTION: safety glasses

OTHER PROTECTIVE EQUIPMENT: Wash contaminated clothing, discard contaminated shoes.

HYGIENIC PRACTICES: Wash thoroughly before eating, smoking or chewing gum. Do not apply product to any materials or containers used in the food industry.

SECTION IX — SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Do not store near any food or food products. Avoid accumulation of contaminated rags or wiping materials by immediately soaking them in water and collar in metal container for disposal.

OTHER PRECAUTIONS: 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 this product.

Data in this Material Safety Data Sheet is accurate and reliable to the best of our knowledge and belief and relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

MATERIAL SAFETY DATA SHEETFOR COATINGS, RESINS AND RELATED MATERIALS
(Approved by U.S. Department of Labor "Essentially Similar" to Form OSHA 20)

DATE OF PREP: 2-1-88
 The John G. Marshall Mfg. Co., Inc.
 P.O. Box 649
 Deerfield, IL 60015
 EMERGENCY TELEPHONE NO. 312-478-7111 (DAY)
 INFORMATION TELEPHONE NO. 312-478-7111

SECTION I

PRODUCT NUMBER: #15
 PRODUCT NAME: Cobalt Violet Photo Oil Color
 PRODUCT CLASS: Color in oil.

SECTION II — HAZARDOUS INGREDIENTS

INGREDIENT	CAS #	PERCENT	OCCUPATIONAL EXPOSURE LIMITS		VAPOR PRESSURE		TOXICITY DATA
			TLV	PEL	mm	Hg	
Ethyl Alcohol	64-17-5	>0.5%	1000 PPM		40		TDL, 50 mg/kg
Alumina Hydrate	21645-51-2	45.0%	High (IPR)				TDL, 122 mg/kg/4D

SECTION III — PHYSICAL DATA

BILING RANGE: N/A
 VAPOR DENSITY: HEAVIER LIGHTER THAN AIR
 VAPORATION RATE: FASTER THAN ETHER
 SLOWER THAN ETHER
 PERCENT VOLATILE BY VOLUME: 0.5%
 WEIGHT PER GALLON: 10.1 lbs/gal.

SECTION IV — FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION: OSHA III A FLASH POINT: 147°F. LEL: ----
 DOT _____
 EXTINGUISHING MEDIA: FOAM "ALCOHOL" FOAM CO₂ DRY CHEMICAL WATER FOG OTHER

UNUSUAL FIRE AND EXPLOSION HAZARDS: Rags and waste paper containing this material may heat and burn spontaneously. Store wiping materials in metal cans with tight lids: soak with water.

SPECIAL FIREFIGHTING PROCEDURES: Avoid use of water, but if only alternative, implement. Use water to keep fire-exposed containers cool.

SECTION V — HEALTH HAZARD DATA

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EFFECTS OF OVEREXPOSURE: Inhalation of product may cause mild irritation of nose and throat. Eye contact may cause redness and tearing. Sensitive individuals may experience dermatitis, after long exposure on skin. Ingestion of large amounts may cause gastro-intestinal upset.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: None reported.

PRIMARY ROUTE(S) OF ENTRY: DERMAL INHALATION INGESTION

EMERGENCY AND FIRST AID PROCEDURES: EYE CONTACT: Flush with clean lukewarm water for at least 15 minutes, occasionally lifting eyelids. SKIN CONTACT: May be removed from skin with waterless cleaner followed by washing with soap and warm water. INHALATION: Expose individual to fresh air source. INGESTION: Keep person warm and quiet; seek medical advice for prevention of possible dehydration.

SECTION VI — REACTIVITY DATA

STABILITY: UNSTABLE STABLE Spontaneous combustion can occur.

HAZARDOUS POLYMERIZATION: MAY OCCUR WILL NOT OCCUR

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition may yield carbon dioxide and/or carbon monoxide, ammonia, hydrogen cyanide and NO_x.

CONDITIONS TO AVOID: Keep from contact with oxidizing materials.

COMPATIBILITY (MATERIALS TO AVOID): Avoid contact with strong oxidizing agents: violent reaction with Cl₂, chlorinated rubber.

SECTION VII — SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Small spills can 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 containers and salvaged.

WASTE DISPOSAL METHOD: Carefully incinerate or use secure landfill or special waste landfill in accordance with local, state and federal regulations.

SECTION VIII — SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION: Not normally needed.

VENTILATION: Intermittent clean air exchanges recommended.

PROTECTIVE GLOVES: Neoprene rubber gloves.

EYE PROTECTION: Safety glasses.

OTHER PROTECTIVE EQUIPMENT: Prevent repeated or prolonged skin contact.

HYGIENIC PRACTICES: Eyewashes in the workplace are recommended.

SECTION IX — SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Avoid accumulation of contaminated rags or wiping materials by immediate immersion in water.

OTHER PRECAUTIONS: 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.

This Material Safety Data Sheet is accurate and reliable to the best of our knowledge and belief and relates only to the specific material designated in and does not relate to use in combination with any other material or in any process.

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MATERIAL SAFETY DATA SHEETFOR COATINGS, RESINS AND RELATED MATERIALS
(Approved by U.S. Department of Labor "Essentially Similar" to Form OSHA 20)

The John G. Marshall Mfg. Co., Inc.

P.O. Box 649
Deerfield, IL 60015EMERGENCY TELEPHONE NO. 312-478-7111 (DAY)
INFORMATION TELEPHONE NO. 312-478-7111

DATE OF PREP

2-1-88**SECTION I**PRODUCT NUMBER: #16
PRODUCT NAME: Lip Photo Oil Color
PRODUCT CLASS: Color in oil.**SECTION II — HAZARDOUS INGREDIENTS**

INGREDIENT	CAS #	PERCENT	OCCUPATIONAL EXPOSURE LIMITS		VAPOR PRESSURE		TOXICITY DATA
			TLV	PEL	mm	Hg	
Ethyl Alcohol	64-17-5	>0.5%	1000 PPM		40		TDL. 50 mg/kg
Alumina Hydrate	21645-51-2	24.5%	High (IPR)				TDL. 122 mg/kg/4D

SECTION III — PHYSICAL DATABOILING RANGE: N/A
EVAPORATION RATE: FASTER THAN ETHER
 SLOWER THAN ETHER
VAPOR DENSITY: HEAVIER LIGHTER THAN AIR
PERCENT VOLATILE BY VOLUME: 0.5%
WEIGHT PER GALLON: 9.5 lbs/gal.**SECTION IV — FIRE AND EXPLOSION HAZARD DATA**FLAMMABILITY CLASSIFICATION: OSHA III A FLASH POINT: 146°F. LEL: ---
DOT _____
EXTINGUISHING MEDIA: FOAM "ALCOHOL"
FOAM CO₂ DRY CHEMICAL WATER OTHER
FOG

UNUSUAL FIRE AND EXPLOSION HAZARDS: Rags and waste paper containing this material may heat and burn spontaneously. Store wiping materials in metal cans with tight lids: soak with water.

SPECIAL FIREFIGHTING PROCEDURES: Avoid use of water, but if only alternative, implement Use water to keep fire-exposed containers cool.

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SECTION V — HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE: Inhalation of product may cause mild irritation of nose and throat. Eye contact may cause redness and tearing. Sensitive individuals may experience dermatitis, after long exposure on skin. Ingestion of large amounts may cause gastro-intestinal upset.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: None reported.

PRIMARY ROUTE(S) OF ENTRY: DERMAL INHALATION INGESTION

EMERGENCY AND FIRST AID PROCEDURES: EYE CONTACT: Flush with clean lukewarm water for at least 15 minutes, occasionally lifting eyelids. SKIN CONTACT: May be removed from skin with waterless cleaner followed by washing with soap and warm water.

INHALATION: Expose individual to fresh air source. INGESTION: Keep person warm and quiet; seek medical advice for prevention of possible dehydration.

SECTION VI — REACTIVITY DATA

STABILITY: UNSTABLE STABLE Spontaneous combustion can occur.

HAZARDOUS POLYMERIZATION: MAY OCCUR WILL NOT OCCUR

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition may yield carbon dioxide and/or carbon monoxide, ammonia, NO_x.

CONDITIONS TO AVOID: Keep from contact with oxidizing materials.

COMPATIBILITY (MATERIALS TO AVOID): Avoid contact with strong oxidizing agents: violent reaction with Cl₂, chlorinated rubber.

SECTION VII — SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Small spills can 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 containers and salvaged.

WASTE DISPOSAL METHOD: Carefully incinerate or use secure landfill or special waste landfill in accordance with local, state and federal regulations.

SECTION VIII — SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION: Not normally needed.

VENTILATION: Intermittent clean air exchanges recommended.

PROTECTIVE GLOVES: Neoprene rubber gloves.

EYE PROTECTION: Safety glasses.

OTHER PROTECTIVE EQUIPMENT: Prevent repeated or prolonged skin contact.

HYGIENIC PRACTICES: Eyewashes in the workplace are recommended.

SECTION IX — SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Avoid accumulation of contaminated rags or wiping materials by immediate immersion in water.

OTHER PRECAUTIONS: 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.

This Material Safety Data Sheet is accurate and reliable to the best of our knowledge and belief and relates only to the specific material designated in and does not relate to use in combination with any other material or in any process.

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FOR COATINGS, RESINS AND RELATED MATERIALS
(Approved by U.S. Department of Labor "Equivalent to" to Form OSHA 20)

The John C. Marshall Mfg. Co., Inc.
 P.O. Box 649
 Deerfield, IL 60015

DATE OF PREP
7-1-88

EMERGENCY TELEPHONE NO. 312-478-7111 (DAY)
 INFORMATION TELEPHONE NO. 312-478-7111

SECTION I

PRODUCT NUMBER: #29
 PRODUCT NAME: Tree Green Photo Oil Colors
 PRODUCT CLASS: Color in oil.

SECTION II — HAZARDOUS INGREDIENTS

INGREDIENT	CAS #	PERCENT	OCCUPATIONAL EXPOSURE LIMITS	VAPOR PRESSURE	TOXICITY DATA
Ethyl Alcohol	64-17-5	>0.5%	TLV 1000 PPM	mm Hg 40	TDL. 50mg/kg
Alumina Hydrate	21645-51-2	23.1%	High (IPR)		TDL. 122mg/kg/40
Chlorinated Copper Phthalocyanine	147-14-8	1.2%	Not Assigned		LD ₅₀ 5g/kg

SECTION III — PHYSICAL DATA

BOILING RANGE: N/A
 EVAPORATION RATE: FASTER THAN ETHER
 SLOWER THAN ETHER
 VAPOR DENSITY: HEAVIER LIGHTER THAN AIR
 PERCENT VOLATILE BY VOLUME: 0.5%
 WEIGHT PER GALLON: 9.8 lbs/gal.

SECTION IV — FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION: OSHA III A FLASH POINT: 148°F. LEL: ----
 DOT _____
 EXTINGUISHING MEDIA: FOAM "ALCOHOL" FOAM CO₂ DRY CHEMICAL WATER OTHER FOG

UNUSUAL FIRE AND EXPLOSION HAZARDS: Rags and waste paper containing this material may heat and burn spontaneously. Store wiping materials in metal cans with tight lids; soak with water.

SPECIAL FIREFIGHTING PROCEDURES: Avoid use of water, but if only alternative, implement. Use water to keep fire-exposed containers cool.

FORM NO. 205-8/85

03/27/98

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SECTION V — HEALTH HAZARD DATA

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EFFECTS OF OVEREXPOSURE: Repeated and prolonged inhalation or ingestion of Cadmium Compounds may cause delayed effects involving the respiratory and renal systems. Eye contact may cause redness and tearing. Sensitive individuals may experience dermatitis, after long exposure on skin.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: Not available. Not believed to be acutely toxic. May cause effects of chronic Cadmium toxicity.

PRIMARY ROUTE(S) OF ENTRY: DERMAL INHALATION INGESTION

EMERGENCY AND FIRST AID PROCEDURES: **INGESTION:** Give large quantities of water, induce vomiting. Call a physician. **EYE CONTACT:** Flush with clean lukewarm water for at least 15 minutes, occasionally lifting eyelids. **SKIN CONTACT:** May be removed from skin with waterless cleaner followed by washing with soap and warm water. **INHALATION:** Expose individual to fresh air source.

SECTION VI — REACTIVITY DATA

STABILITY: UNSTABLE STABLE Spontaneous combustion can occur.

HAZARDOUS POLYMERIZATION: MAY OCCUR WILL NOT OCCUR

HAZARDOUS DECOMPOSITION PRODUCTS: Fire conditions or above 1000°F may emit SO₂ Gas and

CONDITIONS TO AVOID: Fire conditions and contact with strong acids. Sanding of films can create dust containing Cadmium, use respirator.

INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizing agents, acids, violent reaction with Cl₂, Chlorinated rubber.

SECTION VII — SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Small spills can be picked up with absorbent material, transferred into closed metal container for disposal as hazardous waste. Large spills can be scooped up and salvaged.

WASTE DISPOSAL METHOD: Treat as hazardous material. Dispose of in accordance with Federal, State and Local Regulations.

SECTION VIII — SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION: Not normally needed unless product is being sprayed: then use respiratory devices approved by NIOSH/MESA for protection against spray mist and vapors.

VENTILATION: Intermittent clean air exchanges recommended.

PROTECTIVE GLOVES: Neoprene rubber gloves.

EYE PROTECTION: Safety Glasses

OTHER PROTECTIVE EQUIPMENT: Wash contaminated clothing, discard contaminated shoes.

HYGIENIC PRACTICES: Wash thoroughly before eating, smoking or chewing gum. Do not apply product or any materials or containers used for the food industry.

SECTION IX — SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Do not store near any food or food products. Avoid accumulation of contaminated rags or wiping materials by immediately soaking them in water and collect in metal container for disposal.

OTHER PRECAUTIONS: 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 this product.

Data in this Material Safety Data Sheet is accurate and reliable to the best of our knowledge and belief and relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: MARSHALL RETOUCH COLOR **DATE:** 03/31/98
PRODUCT CODE(S): VIRIDIAN
 MS-RCC-VE

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

INFORMATION AND EMERGENCY PHONE DURING BUSINESS HOURS 800-821-5488

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

COMPONENTS	CAS #	WEIGHT %
NONE		

SECTION III PHYSICAL / CHEMICAL CHARACTERISTICS
BOILING POINT: 212°F
COLOR: AQUA GREEN
SOLUBILITY IN WATER: COMPLETE
EVAPORATION RATE: N/A
STABILITY: PRODUCT IS STABLE UNDER NORMAL CONDITIONS

SECTION IV FIRE AND EXPLOSION HAZARD DATA
FLASH POINT: NOT COMBUSTIBLE OR FLAMMABLE
FLAMMABLE LIMITS: NOT COMBUSTIBLE OR FLAMMABLE
EXTINGUISHING MEDIA: WATER, DRY CHEMICAL, CARBON DIOXIDE, FOAM.
SPECIAL FIRE FIGHTING INSTRUCTIONS: WEAR SELF-CONTAINED BREATHING
 APPARATUS PRESSURE-DEMAND (MSHA/NIOSH APPROVED OR EQUIVALENT)
 AND FULL PROTECTIVE GEAR.
UNUSUAL FIRE & EXPLOSION HAZARDS: NONE KNOWN

SECTION V REACTIVITY DATA
CONDITIONS TO AVOID: OXIDIZING AND REDUCING AGENTS
HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: POSSIBLE OXIDES OF NITROGEN
 AND OTHER POTENTIALLY TOXIC FUMES.
HAZARDOUS POLYMERIZATION: WILL NOT 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 COOL WATER FOR AT LEAST 15 MINUTES. IF
 IRRITATION PERSISTS CONSULT A PHYSICIAN IMMEDIATELY.

MARSHALL RETOUCH COLOR - VIRIDIAN**PAGE 2**

SKIN: WASH 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: INDUCE VOMITING BY PUTTING FINGER DOWN BACK OF THROAT. GET MEDICAL ATTENTION.

SECTION VII PRECAUTIONS FOR SAFE HANDLING AND USE

IF SMALL RELEASE: SHOULD BE ABSORBED AND PLACED IN A CONTAINER FOR DISPOSAL.

WASTE DISPOSAL METHOD: COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS.

STORAGE AND HANDLING: STORE IN A COOL, DRY AREA.

SECTION VIII CONTROL MEASURES

RESPIRATORY PROTECTION: USE AN OSHA/NIOSH APPROVED MASK REGULATOR.

VENTILATION: LOCAL, ADEQUATE EXHAUST

EYES: WEAR CHEMICAL SAFETY GOGGLES

PROTECTIVE GLOVES: NEOPRENE RUBBER GLOVES

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 The John G. Marshall Mfg. Co., Inc., it is the user's obligation to determine the conditions of safe use of the product.

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MATERIAL SAFETY DATA SHEET

FOR COATINGS, RESINS AND RELATED MATERIALS
(Approved by U.S. Department of Labor, "Essentially Similar" to Form OSHA 20)

The John G. Marshall Mfg. Co., Inc.
P.O. Box 649

DATE OF PREP Deerfield, IL 60015

EMERGENCY TELEPHONE NO. 312-478-7111 (DAY

7-1-88

INFORMATION TELEPHONE NO. 312-478-7111

SECTION I

PRODUCT NUMBER: #22

PRODUCT NAME: Oxide Green Photo Oil Colors

PRODUCT CLASS: Color in Oil.

SECTION II — HAZARDOUS INGREDIENTS

INGREDIENT	CAS #	PERCENT	OCCUPATIONAL EXPOSURE LIMITS		VAPOR PRESSURE		TOXICITY DATA
			TLV	PEL	mm	Hg	
Ethyl Alcohol	64-17-5	<0.5%	1000 PPM		40		TDL. 50mg/kg
Alumina Hydrate	21645-51-2	9.7%	High (IDR)				TDL. 122 mg/kg/40
Cadmium Zinc Sulfide	8048-07-5	47.2%	0.5mg/m ³	.2 mg/m ³			LD ₅₀ 5g/kg

SECTION III — PHYSICAL DATA

BOILING RANGE: N/A

VAPOR DENSITY: HEAVIER LIGHTER THAN AIR

EVAPORATION RATE: FASTER THAN ETHER

PERCENT VOLATILE BY VOLUME: 0.5%

SLOWER THAN ETHER

WEIGHT PER GALLON: 13.3 lbs/gal.

SECTION IV — FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION: OSHA IIIA
DOT

FLASH POINT: 147°F LEL:

EXTINGUISHING MEDIA: FOAM "ALCOHOL" FOAM CO₂ DRY CHEMICAL WATER FOG OTHER

UNUSUAL FIRE AND EXPLOSION HAZARDS: Rage and waste paper containing this material may heat and burn spontaneously. Store wiping materials in metal cans with tight lids; soak with water.

SPECIAL FIREFIGHTING PROCEDURES: Avoid use of water, but if only alternative, implement. Use water to keep fire-exposed containers cool. Overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention. Full protection equipment including self-contained breathing apparatus should be used.

FORM NO. 205-8/86

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SECTION V — HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE: Inhalation of product may cause mild irritation of nose and throat. Eye contact may cause redness and tearing. Sensitive individuals may experience dermatitis, after long exposure on skin. Ingestion of large amounts may cause gastro-intestinal upset.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: None reported.

PRIMARY ROUTE(S) OF ENTRY: DERMAL INHALATION INGESTION

EMERGENCY AND FIRST AID PROCEDURES: EYE CONTACT: Flush with clean lukewarm water for at least 15 minutes, occasionally lifting eyelids. SKIN CONTACT: May be removed from skin with waterless cleaner followed by washing with soap and warm water.

INHALATION: Expose individual to fresh air source. INGESTION: Keep person warm and quiet; seek medical advice for prevention of possible dehydration.

SECTION VI — REACTIVITY DATA

STABILITY: UNSTABLE STABLE Spontaneous combustion can occur.

HAZARDOUS POLYMERIZATION: MAY OCCUR WILL NOT OCCUR

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition may yield carbon dioxide and/or carbon monoxide, Halogen, halogen acid NO_x, ammonia, and carbonyl Halide.

CONDITIONS TO AVOID: Keep from contact with oxidizing materials.

INCOMPATIBILITY (MATERIALS TO AVOID): Avoid contact with strong oxidizing agents: violent reaction with Cl₂, chlorinated rubber.

SECTION VII — SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Small spills can 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 containers and salvaged.

WASTE DISPOSAL METHOD: Carefully incinerate or use secure landfill or special waste landfill in accordance with local, state and federal regulations.

SECTION VIII — SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION: Not normally needed.

VENTILATION: Intermittent clean air exchanges recommended.

PROTECTIVE GLOVES: Neoprene rubber gloves.

EYE PROTECTION: Safety glasses.

OTHER PROTECTIVE EQUIPMENT: Prevent repeated or prolonged skin contact.

HYGIENIC PRACTICES: Eyewashes in the workplace are recommended.

SECTION IX — SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Avoid accumulation of contaminated rags or wiping materials by immediate immersion in water.

OTHER PRECAUTIONS: 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. This Material Safety Data Sheet is accurate and reliable to the best of our knowledge and belief and relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

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SPECTRA
- DYES

SPECTRA COLORS CORP.
BACHMEIER COLORS DIV.
25 RIZZOLO ROAD
KEARNY, NJ 07032
PHONE: 201-997-0606 - FAX 201-997-0504

BACO
DYES

DATE - AUG 05, 1991

PAGE - 01

3.AC.W0120

MATERIAL SAFETY DATA SHEET

SECTION I IDENTIFICATION:

Spectra Number 3.AC.W0120 Product Name SPEC W/S VERONA BROWN A12895 Color Index Name ACID BROWN A128950

C. A. S. No.: MIXTURE Chemical Family DISAZO & MONOAZO DYES Color Index No.: NONE

WARNING - CAUTION:

Handle with CARE. AVOID over exposure. Use NIOSH/OSHA APPROVED RESPIRATOR, WORK GLOVES and CLOTHING. WASH after handling. SENSITIVE INDIVIDUALS MAY EXPERIENCE RESPIRATORY ALLERGIES. MAY CAUSE SKIN IRRITATION. USE WITH LOCAL VENTILATION.

SECTION II - HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

COMPONENT ACID RED 027 CAS NO. UN1602 915.67.3 HAZARD 10 POSSIBLE CARCINOGENE
POSSIBLE CARCINOGEN: SUSPECTED CARCINOGEN BASED ON LABORATORY TESTS. OVEREXPOSURE MAY CREATE CANCER RISK.

SARA TITLE III, Section 313: LISTED

SECTION III - PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point ND Specific Gravity (H2O=1) ND
Vapor pressure (MM HG) = H2O ND Melting Point ND
Vapor Density (AIR=1) ND Evaporation Rate (BUTYL ACT=1) ND
Molecular Weight ND PH Factor ND

Solubility in Water SOLUBLE
Appearance and Odor POWDER, NO ODOR

SECTION IV - HEALTH HAZARD DATA: (ACUTE & CHRONIC)

Effects of overexposure:
Moderately irritation to eyes & skin may result on contact.
Ingestion may result in gastric disturbances.
Inhalation of dusts may irritate the respiratory tract.
Inhalation: YES
Skin: YES
Ingestion: YES
Eyes: YES

Signs and symptoms of overexposure:
Overexposed person may notice coloration of skin (same color as handled). Possible irritation.

Medical conditions generally aggravated by exposure:

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No data available on skin contact or inhalation. Persons with impaired pulmonary function or skin disorders may be more susceptible to the effects of this product on any type of dusty material. HANDLE WITH CARE, AVOID OVEREXPOSURE.

Carcinogenicity NTP: NO
IARC: NO
OSHA Regulated: NO

Exposure Limits: No exposure limits have been determined or found in existing published studies. It is suggested that this product be used in accordance with good industrial practices. HANDLE THIS PRODUCT WITH CARE. AVOID PERSONAL CONTACT

Toxicity Data: Oral (Animal): NO DATA AVAILABLE. Dermal (Animal): NO DATA AVAILABLE. Inhalation (Animal): NO DATA AVAILABLE. Effects to eyes (Animal): NO DATA AVAILABLE. Skin Irritation (Animal): NO DATA AVAILABLE. Fish, LC50 (Lethal): NO DATA AVAILABLE. Additional Data: NO DATA AVAILABLE

HMIS Code: H:1 OVER EXPOSURE MAY CAUSE IRRITATION. F:0 NORMALLY STABLE. R:0 STABLE. P:0 NIOSH / OSHA APPROVED DUST RESPIRATOR, GLOVES, APRON & GOGGLES.

SECTION V - EMERGENCY AND FIRST-AID PROCEDURES: EYE CONTACT: Flush with plenty of cool water for at least 15 minutes, holding eyelids apart for thorough irrigation. Get immediate medical attention SKIN CONTACT: Wash affected area thoroughly with soap and water. If any irritation develops, consult a Physician. INHALATION: Remove to fresh air. If breathing is difficult, give oxygen and get immediate medical attention. INGESTION: Induce vomiting - seek immediate medical attention

SECTION VI - FIRE AND EXPLOSION HAZARD DATA: Flash Point F (C): NORMALLY STABLE, NOT COMBUSTIBLE NOR FLA Flammable Limits: NORMALLY STABLE, NOT COMBUSTIBLE NOR FLA Extinguishing Media: WATER, DRY CHEMICAL, CARBON DIOXIDE, FOAM Special Fire Fighting Procedures: WEAR SELF-CONTAINED BREATHING APPARATUS.

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Unusual Fire & Explosion Procedures: NONE EXPECTED. FIREFIGHTERS SHOULD BE EQUIPPED WITH SELF-CONTAINED BREATHING APPARATUS TO GUARD AGAINST POTENTIALLY TOXIC AND IRRITATING FUMES; AVOID DUSTING. DUST CAN FORM EXPLOSIVE MIXTURES WITH AIR.

SECTION VII - REACTIVITY DATA:

Stability: STABLE
Polymerization: HAZARDOUS POLYMERIZATION WILL NOT OCCUR.
Conditions and Materials to avoid: OXIDIZING & REDUCING AGENTS MAY DESTROY COLOR.
Hazardous Decomposition Products: CO, CO2, OXIDES OF NITROGEN AND OTHER POTENTIALLY TOXIC FUMES.

SECTION VIII - CONTROL MEASURES:

Environmental: Avoid any uncontrolled release of material.
Precautions: Where spills are possible a comprehensive spill response plan should be developed and implemented.
Steps to be taken if material is released or spilled: Utilize recommended protective clothing and equipment. Spills should be swept up using an absorbant dust control product and placed in containers. Spill area can be washed with water. Collect water for approved disposal. In the event of an uncontrolled release of this material the user should determine if the release is reportable under applicable laws and regulations.

CERCLA: NOT REGULATED.
RCRA status: NOT REGULATED.
Section 302: NOT REGULATED.
Section 313: REPORTABLE.

NOTES: A hazard evaluation of this product has been performed. This product is identified as a hazardous chemical under the criteria of the O S H A Hazard Communication Standard (29 CFR 1910.1200).

SECTION IX - PRECAUTIONS FOR SAFE HANDLING & USE:

Respiratory Protection: Use an OSHA/NIOSH approved dust mask/respirator
Ventilation: Local exhaust is preferred and most effective. Mechanical and general ventilation is less effective. Use natural ventilation if possible.
Protective gloves: Plastic or rubber gloves.
Eye Protection: Safety goggles or full face shield.
Protective clothing/equip: Coveralls & non-leather soled work shoes
Work/Hygienic practices: Wash dye contaminated clothes & skin with mild soaps and detergents
Special precautions: In accordance with good industrial practice. handle this product with care and avoid personal contact.

SECTION X - TRANSPORTATION INFORMATION

D.O.T. Shipping Name : NONE
Technical Shipping Name : ACID BROWN A128950
D.O.T. Hazard Class : NONE

UN/NA Number :
Item Numbers: 00426-1019

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DATE AUG 05, 1991 PAGE 04
 Product Reportable Qty : NONE
 D. T. Labels Required : NONE
 D.O.T. Placards : NONE
 Freight Class Bulk : DYES, DRY EARTH PAINTS CLASS 55
 Freight Class Package : DYES, DRY EARTH PAINTS CLASS 55
 Product Label : SPEC W/S VERONA BROWN A12895

SECTION XI - REGULATORY INFORMATION:

TSCA : IN COMPLIANCE
 SARA : THIS PRODUCT CONTAINS TOXIC CHEMICALS SUBJECT TO THE
 REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING
 COMMUNITY RIGHT-TO-KNOW ACT OF 1986 AND CFR 372

Acute YES
 Chronic YES
 Flammable NO
 Reactive NO
 Oxidizer NO

THIS PRODUCT AND/OR INGREDIENTS USED TO MAKE THIS PRODUCT ARE L
 IN THE T.S.C.A CHEMICAL SUBSTANCES INVENTORY.
 THE INFORMATION AND RECOMMENDATIONS CONTAINED HEREIN ARE BASED
 DATA BELIEVED TO BE CORRECT. HOWEVER, NO GUARANTEE OR WARRANTY
 ANY KIND OR IMPLIED IS MADE WITH RESPECT TO THE INFORMATION CON
 HEREIN. THIS M.S.D.S. WAS PREPARED TO COMPLY WITH THE OSHA HAZA
 MUNICATION STANDARD [29 CFR 1910.1200].
 THIS SUPERSEDES ANY PREVIOUS INFORMATION

MATERIAL SAFETY DATA SHEET

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FOR COATINGS, RESINS AND RELATED MATERIALS
(Approved by U.S. Department of Labor "Essentially Similar" to Form OSHA 20)

The John G. Marshall Mfg. Co., Inc.

DATE OF PREP

P.O. Box 649
Deerfield, IL 60015

EMERGENCY TELEPHONE NO. 312-478-7111 (D)

2-1-88

INFORMATION TELEPHONE NO. 312-478-7111

SECTION I

PRODUCT NUMBER: #25

PRODUCT NAME: Sepia Photo Oil Colors

PRODUCT CLASS: Color in oil.

SECTION II — HAZARDOUS INGREDIENTS

INGREDIENT	CAS #	PERCENT	OCCUPATIONAL EXPOSURE LIMITS		VAPOR PRESSURE		TOXICITY DATA
			TLV	PEL	mm	Hg	
Alumina Hydrate	21645-51-2	14.2%	High (IPR)				TDL. 100 mg/kg/4D
Ethyl Alcohol	64-17-5	>0.5%	1000 PPM		40		TDL. 50 mg/kg

SECTION III — PHYSICAL DATA

BOILING RANGE: N/A

VAPOR DENSITY: HEAVIER LIGHTER THAN AIREVAPORATION RATE: FASTER THAN ETHER

PERCENT VOLATILE BY VOLUME: 0.5%

 SLOWER THAN ETHER

WEIGHT PER GALLON: 11.4 lbs/gal.

SECTION IV — FIRE AND EXPLOSION HAZARD DATAFLAMMABILITY CLASSIFICATION: OSHA III A
DOT _____

FLASH POINT: 158°F.

LEL: ----

EXTINGUISHING MEDIA: FOAM "ALCOHOL" FOAM CO₂ DRY CHEMICAL WATER FOG OTHER

UNUSUAL FIRE AND EXPLOSION HAZARDS: Rags and waste paper containing this material may heat and burn spontaneously. Store wiping materials in metal cans with tight lids: soak with water.

SPECIAL FIREFIGHTING PROCEDURES: Avoid use of water, but if only alternative, implement Use water to keep fire-exposed containers cool.

SECTION V — HEALTH HAZARD DATA

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EFFECTS OF OVEREXPOSURE: Inhalation of product may cause mild irritation of nose and throat. Eye contact may cause redness and tearing. Sensitive individuals may experience dermatitis, after long exposure on skin. Ingestion of large amounts may cause gastro-intestinal upset.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: None reported.

PRIMARY ROUTE(S) OF ENTRY: DERMAL INHALATION INGESTION

EMERGENCY AND FIRST AID PROCEDURES: **EYE CONTACT:** Flush with clean lukewarm water for at least 15 minutes, occasionally lifting eyelids. **SKIN CONTACT:** May be removed from skin with waterless cleaner followed by washing with soap and warm water. **INHALATION:** Expose individual to fresh air source. **INGESTION:** Keep person warm and quiet; seek medical advice for prevention of possible dehydration.

SECTION VI — REACTIVITY DATA

STABILITY: UNSTABLE STABLE Spontaneous combustion can occur.

HAZARDOUS POLYMERIZATION: MAY OCCUR WILL NOT OCCUR

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition may yield carbon dioxide and/or carbon monoxide.

CONDITIONS TO AVOID: Keep from contact with oxidizing materials.

INCOMPATIBILITY (MATERIALS TO AVOID): Avoid contact with strong oxidizing agents; violent reaction with Cl_2 , chlorinated rubber.

SECTION VII — SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Small spills can 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 containers and salvaged.

WASTE DISPOSAL METHOD: Carefully incinerate or use secure landfill or special waste landfill in accordance with local, state and federal regulations.

SECTION VIII — SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION: Not normally needed.

VENTILATION: Intermittent clean air exchanges recommended.

PROTECTIVE GLOVES: Neoprene rubber gloves.

EYE PROTECTION: Safety glasses.

OTHER PROTECTIVE EQUIPMENT: Prevent repeated or prolonged skin contact.

HYGIENIC PRACTICES: Eyewashes in the workplace are recommended.

SECTION IX — SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Avoid accumulation of contaminated rags or wiping materials by immediate immersion in water.

OTHER PRECAUTIONS: 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.

This Material Safety Data Sheet is accurate and reliable to the best of our knowledge and belief and relates only to the specific material designated

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MATERIAL SAFETY DATA SHEETFOR COATINGS, RESINS AND RELATED MATERIALS
(Approved by U.S. Department of Labor "Essentially Similar" to Form OSHA 20)The John G. Marshall Mfg. Co., Inc.
P.O. Box 649
Deerfield, IL 60015DATE OF PREP
2-1-88EMERGENCY TELEPHONE NO. 312-478-7111 (DA)
INFORMATION TELEPHONE NO. 312-478-7111**SECTION I**PRODUCT NUMBER: #37
PRODUCT NAME: Flash Photo Oil Color
PRODUCT CLASS: Color in oil.**SECTION II — HAZARDOUS INGREDIENTS**

INGREDIENT	CAS #	PERCENT	OCCUPATIONAL EXPOSURE LIMITS		VAPOR PRESSURE		TOXICITY DATA
			TLV	PEL	mm	Hg	
Alumina Hydrate	21645-51-2	22.7%	High (IPR)				TDL, 122 mg/kg/4D
Ethyl Alcohol	64-17-5	> 0.5%	1000 RPM		40		TDL, 50 mg/kg

SECTION III — PHYSICAL DATABOILING RANGE: N/A
EVAPORATION RATE: FASTER THAN ETHER
 SLOWER THAN ETHER
VAPOR DENSITY: HEAVIER LIGHTER THAN AIR
PERCENT VOLATILE BY VOLUME: 0.5%
WEIGHT PER GALLON: 11.3 lbs/gal.**SECTION IV — FIRE AND EXPLOSION HAZARD DATA**FLAMMABILITY CLASSIFICATION: OSHA III A
DOT _____
FLASH POINT: 150°F. LEL: ----
EXTINGUISHING MEDIA: FOAM "ALCOHOL"
FOAM CO₂ DRY CHEMICAL WATER
FCG OTHER

UNUSUAL FIRE AND EXPLOSION HAZARDS: Rags and waste paper containing this material may heat and burn spontaneously. Store wiping materials in metal cans with tight lids; soap with water.

SPECIAL FIREFIGHTING PROCEDURES: Avoid use of water, but if only alternative, implement Use water to keep fire-exposed containers cool.

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SECTION V — HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE: Inhalation of product may cause mild irritation of nose and throat. Eye contact may cause redness and tearing. Sensitive individuals may experience dermatitis, after long exposure on skin. Ingestion of large amounts may cause gastro-intestinal upset.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: None reported.

PRIMARY ROUTE(S) OF ENTRY: DERMAL INHALATION INGESTION

EMERGENCY AND FIRST AID PROCEDURES: EYE CONTACT: Flush with clean lukewarm water for at least 15 minutes, occasionally lifting eyelids. SKIN CONTACT: May be removed from skin with waterless cleanser followed by washing with soap and warm water.

INHALATION: Expose individual to fresh air source. INGESTION: Keep person warm and quiet; seek medical advice for prevention of possible dehydration.

SECTION VI — REACTIVITY DATA

STABILITY: UNSTABLE STABLE Spontaneous combustion can occur.

HAZARDOUS POLYMERIZATION: MAY OCCUR WILL NOT OCCUR

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition may yield carbon dioxide and/or carbon monoxide.

CONDITIONS TO AVOID: Keep from contact with oxidizing materials.

INCOMPATIBILITY (MATERIALS TO AVOID): Avoid contact with strong oxidizing agents; violent reaction with Cl_2 , chlorinated rubber.

SECTION VII — SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Small spills can 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 containers and salvaged.

WASTE DISPOSAL METHOD: Carefully incinerate or use secure landfill or special waste landfill in accordance with local, state and federal regulations.

SECTION VIII — SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION: Not normally needed.

VENTILATION: Intermittent clean air exchanges recommended.

PROTECTIVE GLOVES: Neoprene rubber gloves.

EYE PROTECTION: Safety glasses.

OTHER PROTECTIVE EQUIPMENT: Prevent repeated or prolonged skin contact.

HYGIENIC PRACTICES: Eyewashes in the workplace are recommended.

SECTION IX — SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Avoid accumulation of contaminated rags or wiping materials by immediate immersion in water.

OTHER PRECAUTIONS: 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. This Material Safety Data Sheet is accurate and reliable to the best of our knowledge and belief and relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

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MATERIAL SAFETY DATA SHEET

FOR COATINGS, RESINS AND RELATED MATERIALS
(Approved by U.S. Department of Labor "Essentially Similar" to Form OSHA 209)

The John G. Marshall Mfg. Co., Inc.

P.O. Box 649

Deerfield, IL 60015

DATE OF PREP

2-1-88

EMERGENCY TELEPHONE NO. 312-478-7111 (DA)
 INFORMATION TELEPHONE NO. 312-478-7111

SECTION I

PRODUCT NUMBER: #28
 Titanium White Photo Oil Color
 PRODUCT NAME:
 PRODUCT CLASS: Color in oil.

SECTION II — HAZARDOUS INGREDIENTS

INGREDIENT	CAS #	PERCENT	OCCUPATIONAL EXPOSURE LIMITS		VAPOR PRESSURE		TOXICITY DATA
			TLV	PEL	mm	Hg	
Ethyl Alcohol	64-17-5	> 0.5%	1000 PPM		40		TDL. 50 mg/kg
Zinc Oxide	1314-13-2	15.4%	5 mg/m ³				TCL. 600 mg/m ³ /PUL

SECTION III — PHYSICAL DATA

BOILING RANGE: N/A
 EVAPORATION RATE: FASTER THAN ETHER
 SLOWER THAN ETHER
 VAPOR DENSITY: HEAVIER LIGHTER THAN AIR
 PERCENT VOLATILE BY VOLUME: 0.5%
 WEIGHT PER GALLON: 15.7 lbs/gal.

SECTION IV — FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION: OSHA III A FLASH POINT: 150°F. LEL: ---
 DOT _____
 EXTINGUISHING MEDIA: FOAM "ALCOHOL" FOAM CO₂ DRY CHEMICAL WATER OTHER FOG

UNUSUAL FIRE AND EXPLOSION HAZARDS: Rags and waste paper containing this material may heat and burn spontaneously. Store wiping materials in metal cans with tight lids: soak with water.

SPECIAL FIREFIGHTING PROCEDURES: Avoid use of water, but if only alternative, implement Use water to keep fire-exposed containers cool. See special precautions on burning.

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SECTION V — HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE: Inhalation of product may cause mild irritation of nose and throat. Eye contact may cause redness and tearing. Sensitive individuals may experience dermatitis, after long exposure on skin. Ingestion of large amounts may cause gastro-intestinal upset.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: None reported.

PRIMARY ROUTE(S) OF ENTRY: DERMAL INHALATION INGESTION

EMERGENCY AND FIRST AID PROCEDURES: **EYE CONTACT:** Flush with clean lukewarm water for at least 15 minutes, occasionally lifting eyelids. **SKIN CONTACT:** May be removed from skin with waterless cleaner followed by washing with soap and warm water. **INHALATION:** Expose individual to fresh air source. **INGESTION:** Keep person warm and quiet; seek medical advice for prevention of possible dehydration.

SECTION VI — REACTIVITY DATA

STABILITY: UNSTABLE STABLE Spontaneous combustion can occur.

HAZARDOUS POLYMERIZATION: MAY OCCUR WILL NOT OCCUR

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition may yield carbon dioxide and/or carbon monoxide.

CONDITIONS TO AVOID: Keep from contact with oxidizing materials.

INCOMPATIBILITY (MATERIALS TO AVOID): Avoid contact with strong oxidizing agents; violent reaction with Cl_2 , chlorinated rubber.

SECTION VII — SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Small spills can 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 containers and salvaged.

WASTE DISPOSAL METHOD: Carefully incinerate or use secure landfill or special waste landfill in accordance with local, state and federal regulations.

SECTION VIII — SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION: Not normally needed.

VENTILATION: Intermittent clean air exchanges recommended.

PROTECTIVE GLOVES: Neoprene rubber gloves.

EYE PROTECTION: Safety glasses.

OTHER PROTECTIVE EQUIPMENT: Prevent repeated or prolonged skin contact.

HYGIENIC PRACTICES: Eyewashes in the workplace are recommended.

SECTION IX — SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Avoid accumulation of contaminated rags or wiping materials by immediate immersion in water.

OTHER PRECAUTIONS: 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. Data in this Material Safety Data Sheet is accurate and reliable to the best of our knowledge and belief and relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

MATERIAL SAFETY DATA SHEETFOR COATINGS, RESINS AND RELATED MATERIALS
(Approved by U.S. Department of Labor "Essentially Similar" to Form OSHA 20)The John G. Marshall Mfg. Co., Inc.
P.O. Box 649
Deerfield, IL 60015DATE OF PREP
2-1-88EMERGENCY TELEPHONE NO. 312-478-7111 (DA
INFORMATION TELEPHONE NO. 312-478-7111**SECTION I**

PRODUCT NUMBER: #20

PRODUCT NAME: Neutral Tint Photo Oil Color.

PRODUCT CLASS: Color in oil.

SECTION II — HAZARDOUS INGREDIENTS

INGREDIENT	CAS #	PERCENT	OCCUPATIONAL EXPOSURE LIMITS		VAPOR PRESSURE		TOXICITY DATA
			TLV	PEL	mm	Hg	
Ethyl Alcohol	64-17-5	> 0.5%	1000 PPM		40		TDL. 50 mg/kg
Alumina Hydrate	21645-51-2	29.2%	High (IPR)				TDL. 122 mg/kg/4D

SECTION III — PHYSICAL DATA

BOILING RANGE: N/A
 EVAPORATION RATE: FASTER THAN ETHER
 SLOWER THAN ETHER
 VAPOR DENSITY: HEAVIER LIGHTER THAN AIR
 PERCENT VOLATILE BY VOLUME: 0.5%
 WEIGHT PER GALLON: 10.4 lbs/gal.

SECTION IV — FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION: OSHA III A FLASH POINT: 151°F. LEL: ---
 DOT
 EXTINGUISHING MEDIA: FOAM "ALCOHOL" FOAM CO₂ DRY CHEMICAL WATER FOG OTHER

UNUSUAL FIRE AND EXPLOSION HAZARDS: Rags and waste paper containing this material may heat and burn spontaneously. Store wiping materials in metal cans with tight lids: soak with water.

SPECIAL FIREFIGHTING PROCEDURES: Avoid use of water, but if only alternative, implement Use water to keep fire-exposed containers cool.

SECTION V — HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE: Inhalation of product may cause mild irritation of nose and throat. Eye contact may cause redness and tearing. Sensitive individuals may experience dermatitis, after long exposure on skin. Ingestion of large amounts may cause gastro-intestinal upset.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: None reported.

PRIMARY ROUTE(S) OF ENTRY: DERMAL INHALATION INGESTION

EMERGENCY AND FIRST AID PROCEDURES: EYE CONTACT: Flush with clean lukewarm water for at least 15 minutes, occasionally lifting eyelids. SKIN CONTACT: May be removed from skin with waterless cleaner followed by washing with soap and warm water.

INHALATION: Expose individual to fresh air source. INGESTION: Keep person warm and quiet; seek medical advice for prevention of possible dehydration.

SECTION VI — REACTIVITY DATA

STABILITY: UNSTABLE STABLE Spontaneous combustion can occur.

HAZARDOUS POLYMERIZATION: MAY OCCUR WILL NOT OCCUR

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition may yield carbon dioxide and/or carbon monoxide, with acids hydrogen sulphide is release

CONDITIONS TO AVOID: Keep from contact with oxidizing materials.

INCOMPATIBILITY (MATERIALS TO AVOID): Avoid contact with strong oxidizing agents: violent reaction with Cl_2 , chlorinated rubber, and acids.

SECTION VII — SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Small spills can 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 containers and salvaged.

WASTE DISPOSAL METHOD: Carefully incinerate or use secure landfill or special waste landfill in accordance with local, state and federal regulations.

SECTION VIII — SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION: Not normally needed.

VENTILATION: Intermittent clean air exchanges recommended.

PROTECTIVE GLOVES: Neoprene rubber gloves.

EYE PROTECTION: Safety glasses.

OTHER PROTECTIVE EQUIPMENT: Prevent repeated or prolonged skin contact.

HYGIENIC PRACTICES: Eyewashes in the workplace are recommended.

SECTION IX — SPECIAL PRECAUTIONS

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