

ATTN: Steve Broton
Rumbeau

1477-

Utility Box

420307

Material Safety Data Sheet

may be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

E-5135C

U.S. Department of Labor
Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072



IDENTITY (As Used on Label and List)
Epsilon Polypropylene Random Copolymer

Note: Blank spaces are not permitted. If any item is not applicable, no information is available, the space must be marked "None".

Section I CAS NO. 9003-07-0

Manufacturer's Name
Epsilon Products Company
Address (Number, Street, City, State, and ZIP Code)
P.O. Box 432
Post Road & Blueball Avenue
Marcus Hook, PA 19061

Emergency Telephone Number
610-497-8850
Telephone Number for Information
610-497-8850
Date Prepared
August 1994
Signature of Preparer (optional)

Section II - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended
None			

SARA Title III Information: This product contains no substances subject to the reporting or planning requirements of SARA Title III.

Section III - Physical/Chemical Characteristics

Boiling Point	NA	Specific Gravity (H₂O = 1)	0.90 to 0.91
Vapor Pressure (mm Hg.)	NA	Melting Point	°C 150-170
Vapor Density (AIR = 1)	NA	Evaporation Rate (Butyl Acetate = 1)	NA

Solubility in Water
Negligible

Appearance and Odor
Translucent pellets having a slightly paraffinic odor.

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used) Autoignition Temperature, 570 °C	Flammable Limits	LEL	UEL
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Extinguishing Media
Water, dry chemical or CO₂ extinguisher.

Special Fire Fighting Procedures
No special fire fighting procedures required.

Unusual Fire and Explosion Hazards

No unusual fire or explosion hazards, slightly combustible

Section V -- Reactivity Data

Stability	Unstable		Conditions to Avoid
	Stable	X	

Incompatibility (Materials to Avoid)
 Attacked slowly by oxidizing acids. Organic solvents-resistant below 70° C.

Hazardous Decomposition or Byproducts

Carbon monoxide and carbon dioxide.

Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	X	

Section VI -- Health Hazard Data

Route(s) of Entry: Inhalation? Skin? Ingestion?

Health Hazards (Acute and Chronic)

Not a health hazard.

Carcinogenicity: NTP? IARC Monographs? OSHA Reg. 1910.105?

Not carcinogenic

Signs and Symptoms of Exposure

NA

Medical Conditions
 Generally Aggravated by Exposure

NA

Emergency and First Aid Procedures

No special emergency or first aid procedures required.

Section VII -- Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled

Sweep, shovel or vacuum material into clean containers. Pellets on the floor could present a slipping problem. Good housekeeping should be maintained at all times to avoid this.

Waste Disposal Method

Sweep, shovel vacuum material into containers. Reclaim or dispose via sanitary landfill or incinerate observing all governmental regulations.

Precautions to Be Taken in Handling and Storing

No special precautions are necessary in handling or storing.

Other Precautions

This polymer, when heated, becomes tacky and sticky and will burn. Use self-contained air masks to enter smoky area in the event of a fire.

Section VIII -- Control Measures

Respiratory Protection (Specify Type)

None needed unless adequate ventilation is not provided.

Ventilation	Local Exhaust	Yes	Special
	Mechanical (General)	Yes	Other

Protective Gloves Yes

Eye Protection
 Safety glasses are recommended.

Other Protective Clothing or Equipment

Adequate ventilation must be provided to remove fumes generated.

Work Hygienic Practices

No special work or hygienic practices required.

Flambeau

1283-01 (C15)

1284-01 (U15)

1287-48 (35/52)

1288-24 (50/64)

TO: WILLOW

FROM: DEBBIE DUNBAR

DATE: APRIL 30, 1997

REF: HEALTH CARE LOGISTICS MSDS

THE C-15 AND U-15 CONTAIN STEEL, BLACK PAINT, PRIMER AND CRYSTAL
POLYSTYRENE. THE 35/52 AND 50/64 DIVIDERS CONTAIN CRYSTAL POLYSTYRENE.
I HAVE ENCLOSED THE MSDS FOR STEEL, BLACK PAINT, PRIMER AND CRYSTAL
POLYSTYRENE.

Steel



**Medallion
Metals, Inc.**

1435 J Brookville Way
Indianapolis, IN 46239

P.O. Box 19848
Indianapolis, IN 46219-0848

(317) 353-2334
FAX (317) 351-1783

Fax Cover Sheet

DATE: 3/7/95

TO: FLAMBEAU

ATTN: PETE TERTINEK **FAX:** 812-379-9707

PHONE:

FROM: BRENT HOPPING **PHONE:** 317-353-2334 800-884-2334

FAX: 317-351-1783

RE: MSDS

CC:GARY MCKAY

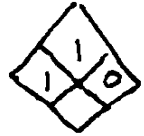
Number of pages including cover sheet: 5

MESSAGE:

PETE;
CALL IF YOU HAVE ANY QUESTIONS.

BRENT

NFPA RATING



QUAKER CHEMICAL CORPORATION
 ELM STREET
 CONSHOHOCKEN PA 19428-0809
 BUSINESS PHONE (215) 832-4000
 FOR EMERGENCY HEALTH & SAFETY INFORMATION (800) 523-7010

TRADE NAME: FERROCOTE 61A-US

HAZARDOUS INGREDIENTS

CAS NO.	CHEMICAL NAME	PERCENT
68781-96-0	CALCIUM SULFONATE	1-54

HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: 5 mg/m3 IS THE TLV FOR OIL MISTS.

PRIMARY ROUTES OF ENTRY: INHALATION, SKIN CONTACT, EYE

EFFECTS OF OVEREXPOSURE: SEE EYE CONTACT, SKIN CONTACT, AND INHALATION FOR EFFECTS OF OVEREXPOSURE.

EYE CONTACT: MAY CAUSE EYE IRRITATION IF SPLASHED INTO EYES.

SKIN CONTACT: PROLONGED AND REPEATED CONTACT MAY LEAD TO VARIOUS SKIN DISORDERS SUCH AS DERMATITIS, OIL ACNE, AND FOLLICULITIS.

INHALATION: INHALATION OF VAPOR (GENERATED AT HIGH TEMPERATURES ONLY) OR OIL MIST FROM THIS PRODUCT MAY CAUSE MILD IRRITATION OF THE UPPER RESPIRATORY TRACT.

EMERGENCY FIRST AID PROCEDURES

EYES: FLUSH PROMPTLY WITH COOL RUNNING WATER FOR AT LEAST 15 MINUTES. CALL A PHYSICIAN.

SKIN: WASH THOROUGHLY WITH SOAP AND WATER. CALL A PHYSICIAN, IF NECESSARY.

INGESTION: CALL A PHYSICIAN. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

INHALATION: IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION, PREFERABLY MOUTH-TO-MOUTH. IF BREATHING IS DIFFICULT, GIVE OXYGEN. CALL A PHYSICIAN.

TRADE NAME: FERROCOTZ 61A-US

SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: FOR FIRE CONDITIONS OR EXPOSURE ABOVE TLV: WEAR NIOSH/MSHA APPROVED RESPIRATORS.

VENTILATION REQUIREMENTS: LOCAL EXHAUST IS RECOMMENDED.

PROTECTIVE GLOVES: RECOMMENDED

EYE PROTECTION: WEAR SAFETY GOGGLES.

OTHER PROTECTIVE EQUIPMENT: EYE WASH FACILITY AND SAFETY SHOWER RECOMMENDED.

PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING/MELTING POINT: >400 F

VAPOR PRESSURE (MM HG): ND

VAPOR DENSITY (AIR=1): ND

PERCENT VOLATILE BY VOLUME (%): ND

EVAPORATION RATE: ND

PH: NA

SPECIFIC GRAVITY (H2O=1): 0.900 @ 60 F

SOLUBILITY IN WATER: INSOLUBLE

APPEARANCE AND ODOR: CLEAR AMBER OIL

FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED): 380 F (COC)

FLAMMABLE LIMITS: ND LOWER: ND UPPER: ND

EXTINGUISHING MEDIA: CO2, FOAM, DRY CHEMICAL.

SPECIAL FIRE FIGHTING PROCEDURES: WEAR NIOSH/MSHA APPROVED RESPIRATORS.

UNUSUAL FIRE AND EXPLOSION HAZARDS: NONE

REACTIVITY DATA

-3-
TRADE NAME: FERROCOTE 81A-US

ABILITY: STABLE.

CONDITIONS CONTRIBUTIONS TO INSTABILITY: NONE.

INCOMPATIBILITY: STRONG OXIDIZERS

HAZARDOUS DECOMPOSITION PRODUCTS: (THERMAL) CO, CO2, SOX, NOX.

SPILL AND LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: SOAK UP WITH ABSORBANT MATERIAL AND REMOVE TO CLOSED CONTAINER. WASH AREA WITH MILD DETERGENT AND WATER.

WASTE DISPOSAL METHOD: DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL EPA REGULATIONS.

SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: DO NOT GET IN EYES, ON SKIN OR ON CLOTHING. DO NOT TAKE INTERNALLY. AVOID BREATHING MIST, VAPOR OR DUST. KEEP CONTAINER CLOSED. WASH THOROUGHLY AFTER HANDLING.

OTHER PRECAUTIONS: NONE.

REGULATORY INFORMATION

D.O.T.: N.A.

PROPER SHIPPING NAME: N.A.

HAZARD CLASS: N.A.

UN/NA ID NUMBER: N.A.

TOXIC SUBSTANCES CONTROL ACT (TSCA): THIS PRODUCT AND/OR ALL THE INGREDIENTS CONTAINED IN THIS PRODUCT HAVE BEEN REGISTERED UNDER THE TOXIC SUBSTANCES CONTROL ACT.

R.C.R.A.: THIS PRODUCT DOES NOT MEET THE DEFINITIONS OR CONTAIN ANY SUBSTANCE APPEARING IN THE LISTINGS CONTAINED IN 40CFR261, "IDENTIFICATION AND LISTING OF HAZARDOUS WASTE."

COMMENTS

THE INFORMATION CONTAINED IN THIS MATERIAL SAFETY DATA SHEET IS BASED ON THE NEAT OR CONCENTRATED PRODUCT AS SHIPPED.

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EDMILLION METALS INC

93173511783

88:55 93/07/1995

-4-
TRADE NAME: FERROCOTE 61A-US

ANY PRODUCT CONTAINING A SUBSTANCE FOR WHICH OSHA HAS ESTABLISHED A PERMISSIBLE EXPOSURE LIMIT (PEL) IS CONSIDERED HAZARDOUS. OSHA HAS ESTABLISHED A PEL OF 5 MG/M3 FOR WORKER EXPOSURE TO AIR BORNE MISTS OF MINERAL OILS. THEREFORE, THE PRESENCE OF MINERAL OILS BRINGS THIS PRODUCT WITHIN THE PROVISIONS OF THE OSHA HAZARD COMMUNICATION STANDARD WHERE THE PEL REACHES OR EXCEEDS 5 MG/M3. HEALTH STUDIES HAVE SHOWN THAT MANY PETROLEUM HYDROCARBONS POSE POTENTIAL HUMAN HEALTH RISKS WHICH MAY VARY FROM PERSON TO PERSON. AS A PRECAUTION, EXPOSURE TO LIQUIDS, VAPOR, MISTS OR FUMES SHOULD BE MINIMIZED.

THIS PRODUCT DOES NOT CONTAIN ANY MATERIAL SHOWN TO BE A CARCINOGEN BY THE NATIONAL TOXICOLOGY PROGRAM (NTP), THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC) OR OSHA.

THIS PRODUCT DOES NOT CONTAIN ANY MATERIAL WHICH IS SUBJECT TO THE ANNUAL REPORTING REQUIREMENTS UNDER SECTION 313 OF SARA, TITLE III. CONTACT THE EPA FOR INFORMATION REGARDING THE REPORTING REQUIREMENTS.

PREPARED BY: KATHRYN F. STRANG
TITLE: MANAGER-REGULATORY INFORMATION CENTER
DATE PREPARED: DECEMBER 11, 1990
DATE PRINTED: DECEMBER 11, 1990
SUPERCEDES MSDS DATED:
MSDS CONTROL #: 01DM773490

THIS PRODUCT'S SAFETY INFORMATION IS PROVIDED TO ASSIST OUR CUSTOMERS IN ASSESSING COMPLIANCE WITH HEALTH/SAFETY/ENVIRONMENTAL REGULATIONS. THE INFORMATION CONTAINED HEREIN IS BASED ON DATA AVAILABLE TO US AND IS BELIEVED TO BE ACCURATE. HOWEVER, NO WARRANTY (OF MERCHANTABILITY, FITNESS FOR ANY USE, OR ANY OTHER WARRANTY IS EXPRESSED OR TO BE IMPLIED, REGARDING THE ACCURACY OF THESE DATA, THE RESULTS TO BE OBTAINED FROM THE USE THEREOF, OR THE HAZARDS CONNECTED WITH THE USE OF THE PRODUCT. SINCE THE USE OF THIS PRODUCT IS WITHIN THE EXCLUSIVE CONTROL OF THE USER, IT IS THE USER'S OBLIGATION TO DETERMINE THE CONDITIONS OF SAFE USE OF THE PRODUCT. SUCH CONDITIONS SHOULD COMPLY WITH ALL FEDERAL REGULATIONS CONCERNING THE PRODUCT. QUAKER CHEMICAL CORPORATION ASSUMES NO LIABILITY FOR ANY INJURY OR DAMAGE, DIRECT OR CONSEQUENTIAL, RESULTING FROM THE USE OF THIS PRODUCT UNLESS SUCH INJURY OR DAMAGE IS ATTRIBUTABLE TO NEGLIGENCE ON THE PART OF QUAKER CHEMICAL CORPORATION.

NA = NOT APPLICABLE, ND = NOT DETERMINED, < = LESS THAN, > = GREATER THAN

Ohio Valley

OHIO VALLEY PLASTICS, INC.



PLASTICS FOR TODAY & THE FUTURE

420106

P.O. Box 6964
Evansville, IN 47719
Phone: (812) 425-8544
FAX: 812-425-1520

MATERIAL SAFETY DATA SHEET

GCP-143

SECTION I PRODUCT IDENTIFICATION

Product: Crystal polystyrene; polymerized styrene
CAS Number: 9003-53-6
Additives: Internal lubricant, external lubricant, color
U.S. Surface Freight Classification:
Rail: Polystyrene, plastics, synthetics other than liquid.
Truck: Plastic granules

SECTION II PHYSICAL AND CHEMICAL CHARACTERISTICS

Appearance: Clear, odorless
Composition: Homopolymer of styrene
Physical Form: Hard solid granules
Specific Gravity: 1.05 gm/cm³
Melting Point: Softens at 205-215°F (96-102°C)
Volatiles: <0.2%
Solubility: Negligible in aqueous solutions (<0.1%)
Soluble in aromatic hydrocarbons (e.g. Benzene, Toluene) MEK, Acetone

SECTION III HEALTH HAZARDS

Hazardous Components: None
Physiology/Toxicology: Polystyrene is considered an inert, harmless material which presents no known health hazard. It presents no significant concern requiring eye, skin, inhalation or ingestion protection other than in areas with excessive dust where ventilation is inadequate.
OSHA: No limits have been established for polystyrene, although respirable dust limits of 5mg/m³ have been suggested. (ACGIH TLV and OSHA PEL/TWA)

OHIO VALLEY PLASTICS, INC.

PLASTICS FOR TODAY & THE FUTURE



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Evansville, IN 47719
Phone: (812) 425-8544
FAX: 812-425-1520

SECTION IV FIRE AND SAFETY INFORMATION

- Flashpoint:** Not applicable
- Auto Ignition Temp:** 910°F, 490°C (ASTM-D 1929-7)
- Extinguishing Media:** Water, CO₂, Class A extinguishing agent
- Unusual Fire and Explosion Hazards:** None, although dust generated during handling can form explosive mixtures in the air. Treat as a gasoline fire.
- Firefighting:** Dense black smoke is created when polystyrene burns. Self contained breathing equipment is suggested.
- Decomposition Products:** Carbon monoxide, carbon dioxide, and small amounts of monomer and other undefined hydrocarbons can be formed upon combustion.
- First Aid:** Flush eyes with water to remove dust particles. Wash skin with soapy water to remove dust particles.
- Reactivity:** Hazardous polymerization will not occur.

SECTION V STORAGE AND DISPOSAL

- Storage:** No special requirements are necessary.
- Conveying:** Static electricity discharges possible with high dust concentration. Transfer equipment should be grounded.
- Spillage:** Polystyrene is a chemically inert solid and may be scooped, shoveled, or vacuumed into appropriately sized containers for reclaiming or disposal.
- Disposal:** Polystyrene is not classified as hazardous waste (40 CFR 261, 40 CFR 117). It may be disposed of in an approved, licensed landfill site in accordance with all applicable local, state, and federal regulations.

OHIO VALLEY PLASTICS, INC.

PLASTICS FOR TODAY & THE FUTURE



P.O. Box 6964
Evansville, IN 47719
Phone: (812) 425-8544
FAX: 812-425-1520

SECTION V REGULATORY

Transportation: Classified as non-hazardous according to U.S. Department of Transportation, CFR Title 49.

OSHA: Non-hazardous per 29 CFR 1910. 1200 (D).

FDA: Material used in processing complies with FDA CFR Title 21, Part 177. 1640.

Ohio Valley Plastics believes the information and recommendations contained herein to be accurate and reliable as of July, 1991. Since the foregoing is provided without charge and since use conditions and disposal are not within its control. Ohio Valley Plastics, Inc. assumes no obligation or liability for such information and recommendations and does not guarantee results from use of products described or other information contained herein. Ohio Valley Plastics makes no warranties, express or implied, including merchantability or fitness for purpose; nor is freedom from any patent owned by Ohio Valley Plastics, Inc. or others to be inferred; and Ohio Valley Plastics disclaims all liability for any resulting loss or damage.

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Primer

MATERIAL SAFETY DATA SHEET

FOR COATING, RESINS, AND RELATED MATERIALS

Prepared by: BH
Last Revision Date: 00-00-00
Manufacturer: MARCUS PAINT COMPANY
Address: 235 EAST MARKET STREET

Date: 01-13-97

LOUISVILLE KY 40202

For: FLAMBEAU PRODUCTS CORP.
P. O. BOX 5067
COLUMBUS IN 47202

Telephone: 502/584-0303 EMERGENCY PHONE IN KY 1-800-722-5725
MSDS Last Prepared: NONE OUTSIDE KY 1-800-854-6813

SECTION I PRODUCT IDENTIFICATION

Manufacturer's Code Identification: LS-20716 Revision
Product Class: GRAY AQUA MAR W/R BAKING ENAMEL
Trade Name: AQUA MAR

SECTION II HAZARDOUS INGREDIENTS

01 GLYCOL ETHER DB CAS# 112-34-5
PCT BY WT: 6.000

EXPOSURE LIMIT:
SUPPLIER RECOMMENDED 35 PPM TLV

02 DIMETHYLETHANOLAMINE CAS# 108-01-0
PCT BY WT: 1-5

EXPOSURE LIMIT:
ACGIH-TLV (TWA) NOT ESTABLISHED
OSHA-PEL (8 HR. TWA) NOT ESTABLISHED

03 WATER CAS# 000732-18-5
PCT BY WT: 35-50

04 CARBON BLACK CAS# 1333-86-4
PCT BY WT: .345

EXPOSURE LIMIT:
ACGIH-TLV (TWA) 3.5 MG/M3
OSHA-PEL (8 HR. TWA) 3.5 MG/M3

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LS-20716
AQUA MAR

MARCUS PAINT COMPANY
MATERIAL SAFETY DATA SHEET

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SECTION II HAZARDOUS INGREDIENTS

IARC RATING

2B(POSSIBLY CARCINOGENIC TO HUMANS)

05 SECONDARY BUTYL ALCOHOL
PCT BY WT: 4.000

CAS# 78-92-2

EXPOSURE LIMIT:

ACGIH-TLV (TWA) 100 PPM
OSHA-PEL (8 HR. TWA) 100 PPM

06
2-BUTOXYETHANOL
PCT BY WT: 4.000

CAS# 111-76-2

EXPOSURE LIMIT:

ACGIH-TLV (TWA) 25 PPM SKIN
OSHA-PEL (8 HR. TWA) 25 PPM SKIN

07 TITANIUM DIOXIDE
PCT BY WT: 10-15

O This product contains one or more reported carcinogens or suspected carcinogens which are noted NTP, IARC, or OSHA-Z in the other limits recommended column.

This product contains pigments which may become a dust nuisance when removed by abrasive blasting, sanding, or grinding.

SECTION III PHYSICAL DATA

Boiling Range: High- 343.0 F Low- 211.0 F
Vapor Pressure: 12.50 MMHG at 68 F
Vapor Density: Heavier Than Air
Evaporation Rate: Faster than Butyl Acetate
Weight per Gallon: 9.33
Specific Gravity: 1.12
% Volatile by Volume: 71.80
VOC: 3.171 lbs/gal 379.980 grams/liter
Physical State: LIQUID
Appearance: N/A
Odor: N/A
Odor Threshold: N/A
pH: N/A
Freezing Point: N/A
Water Solubility: N/A
Coefficient of Water/Oil Distribution: N/A
Mechanical Impact Explosion: N/A

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LS-20716
AQUA MAR

MARCUS PAINT COMPANY
MATERIAL SAFETY DATA SHEET

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Static Electricity Explosion: N/A

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flammability Classification: Class 2 DOT: Not Regulated
Actual Flashpoint TCC: 135.0 F
Explosion Level: Lower- 9 Upper- 24.6
Upper Flammability Limit: Not applicable
Lower Flammability Limit: N/A
Auto Ignition Temperature: N/A
Flame Extension: N/A
Dot#: N/A
EXTINGUISHING MEDIA

Based on the presence of components (05) Use CO2, DRY CHEMICAL
or ALCOHOL FOAM.

Based on the presence of components (01,02,06) Use WATER SPRAY, DRY
CHEMICAL, ALCOHOL FOAM, or CO2.

SPECIAL FIRE FIGHTING PROCEDURES

Clear fire area of unprotected personnel. Containers that are exposed to
intense heat should be cooled with water. Avoid spreading burning liquid
with the water used for cooling purposes. Do not enter fire area without
protective gear. Fight fire from safe distance or a protected location.

UNUSUAL FIRE AND EXPLOSION HAZARD:

Keep containers tightly closed. Isolate from heat, electrical equipment,
sparks and open flame. Vapors may be heavier than air and may travel
along the ground before ignition/flashing back to vapor source. Keep
welding or cutting equipment away from product.
equipment away from product.

SECTION V HEALTH HAZARD DATA

"EFFECTS OF EXCESSIVE OVEREXPOSURE"

Reports have associated repeated and prolonged occupational overexposure to
solvents with permanent brain and nervous system damage. Intentional
misuse by deliberately concentrating and inhaling the contents may be
harmful or fatal. Do not breathe vapors or spray mist. Wear an appro-
priate, properly fitted respirator (NIOSH/MSHA approved) during and after
application unless air monitoring demonstrates vapor/mist levels are below
applicable limits. Follow respirator manufacturer's directions for
respirator use.

ACUTE EFFECTS OF OVEREXPOSURE

"EFFECTS OF ACUTE OVEREXPOSURE"

Based on the presence of components (05) EYES-Can cause severe
irritation, redness, tearing, blurred vision.

Based on the presence of components (06) EYES-May cause temporary
discomfort.

Based on the presence of components (01) EYES-May cause slight eye
irritation and slight corneal injury.

Based on the presence of components (02) EYES-May cause moderate
to severe keratitis, iritis and conjunctivitis.

LS-20716
AQUA MAR

Based on the presence of components (05) SKIN-Prolonged or repeated contact can cause moderate irritation, defatting, dermatitis.

Based on the presence of components (01) SKIN-Can cause slight irritation.

Based on the presence of components (06) SKIN-Can be absorbed through skin.

Based on the presence of components (02) SKIN-Prolonged contact can result in chemical burns. Prolonged or repeated contact may result in the absorption of harmful amounts.

Based on the presence of components (06) SKIN-Can cause reddening, irritation, dermatitis, possible sensitization.

Based on the presence of components (05) INHALATION-Excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness and even asphyxiation.

Based on the presence of components (02,06) INHALATION-Excessive inhalation of vapors can cause nasal and respiratory irritation.

Based on the presence of components (01) INHALATION-No acute information available.

Based on the presence of components (04) INHALATION-Dust concentrations above the PEL may cause temporary upper respiratory tract discomfort.

Based on the presence of components (05,06) INGESTION-Can cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Based on the presence of components (01) INGESTION-May cause gastrointestinal irritation.

Based on the presence of components (02) INGESTION-Will cause nausea, vomiting, drowsiness, GI pain and cramps.

"EFFECTS OF CHRONIC OVEREXPOSURE"

Based on the presence of components (04) No known adverse chronic health effects, but unnecessary exposure to any chemical should be avoided.

Based on the presence of components (01,05) No long term chronic overexposure information available.

Based on the presence of components (06) Has apparently been found to cause the following in laboratory animals: anemia, liver abnormalities, kidney damage, lung damage, blood abnormalities.

Based on the presence of components (02) Repeated exposure may result in an asthmatic reaction.

"FIRST AID"

EYE CONTACT: Flush with luke warm water for 15 minutes. Seek physician immediately or call emergency number listed in Section I.

SKIN CONTACT: Remove contaminated clothing promptly and rinse effected area with plenty of water. Launder contaminated clothing before reuse. Contact a physician immediately or call emergency number listed in Section I.

INHALATION: Remove exposed individual to fresh air. Restore breathing if required. Contact a physician immediately or call emergency number listed in Section I.

INGESTION: Rinse mouth immediately. Give exposed individual 6 to 8 ounces of liquid if individual can swallow. (Never give anything by mouth to an unconscious person.) DO NOT INDUCE VOMITING unless advised by a physician. Contact a physician immediately or call emergency number listed in Section I.

SECTION VI FIRE-FIGHTING MEASURES

"CONDITIONS TO AVOID"

Based on the presence of components (01,02,05,06) Avoid exposure to sparks, open flame, hot surfaces and all sources of heat ignition.

"HAZARDOUS DECOMPOSITION PRODUCTS:"

Based on the presence of components (01,02,05) Thermal decomposition may form toxic materials: carbon dioxide, carbon monoxide, etc.

Based on the presence of components (06) Thermal Decomposition may form toxic materials: carbon dioxide, carbon monoxide, various hydrocarbons, etc.

"INCOMPATIBILITY (Materials to Avoid)"

Based on the presence of components (01,02,06) Avoid contact with strong oxidizing agents.

Based on the presence of components (05) Avoid contact with strong oxidizing agents, strong mineral acids and strong organic acids, strong oxidizing acids as nitric and sulfuric.

"HAZARDOUS POLYMERIZATION"

Due to the presence of some component(s) Will not occur.

"STABILITY"

Due to the presence of some component(s) This product is stable.

SECTION VII ACCIDENTAL RELEASE MEASURES

"STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED"

Shut off and eliminate all ignition sources. Stay upwind and away from spill unless wearing appropriate protective equipment. Stop and/or contain discharge if it may be done safely. Cover with inert material to reduce fumes. Keep out of drains, sewers or waterways. Contact fire authorities. Notify local health and pollution control agencies. Call spill response teams if large spill.

"WASTE DISPOSAL METHOD"

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

SECTION VIII HANDLING AND STORAGE

MARCUS PAINT COMPANY takes no responsibility for determining what measures are required for personal protection in any specific application.

"PROTECTIVE EYEWEAR"

Avoid contact with eyes. Wear goggles if there is likelihood of contact with eyes. (Consult your safety equipment supplier.) Eyewash stations and safety showers should be readily available in use and handling areas.

"PROTECTIVE GLOVES"

Required for prolonged or repeated contact. Wear resistant gloves such as natural rubber, neoprene, buna N or nitrile. An apron should be worn to avoid skin contact. (Consult your safety equipment supplier.)

"HYGIENIC PRACTICES"

Wash hands thoroughly before eating and using washroom.

"RESPIRATORY PROTECTION"

In outdoor or open areas use (NIOSH/MSHA approved) mechanical filter

respirator to remove solid airborne particles of overspray during spray application. In restricted ventilation areas use (NIOSH/MSHA approved) chemical-mechanical filters designed to remove a combination of particulate and gas and vapor. In confined areas use (NIOSH/MSHA approved) air line type respirators or hoods. Respiratory protection may also be necessary in any later manufacturing operations in which the product may become airborne in the form of vapor or dust.

Eyewash stations and safety showers should be readily available in use and handling areas.

"VENTILATION"

Use ventilation as required to control vapor/dust concentrations. Avoid prolonged or repeated breathing of vapors/dust. If exposures exceed TLV, use NIOSH approved respirator to prevent overexposures.

SECTION IX SPECIAL PRECAUTIONS

"HANDLING AND STORING PRECAUTIONS"

Keep product containers cool, dry and away from sources of ignition. Use and store this product with adequate ventilation. Do NOT smoke in storage areas.

"OTHER IMPORTANT INFORMATION"

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SECTION X SECTION 313 TOXIC CHEMICALS

This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372:

GLYCOL ETHER DB		
CAS#:	112-34-5 Weight Pct:	6.000
SECONDARY BUTYL ALCOHOL		
CAS#:	78-92-2 Weight Pct:	4.000
2-BUTOXYETHANOL		
CAS#:	111-76-2 Weight Pct:	4.000

MATERIAL SAFETY DATA SHEET

FOR COATING, RESINS, AND RELATED MATERIALS

Prepared by: BH
 Last Revision Date: 00-00-00
 Manufacturer: MARCUS PAINT COMPANY
 Address : 235 EAST MARKET STREET

Date: 01-30-97

LOUISVILLE KY 40202

For: FLAMBEAU PRODUCTS CORP.
 P. O. BOX 5067
 COLUMBUS IN 47202

Telephone: 502/584-0303 EMERGENCY PHONE IN KY 1-800-722-5725
 MSDS Last Prepared: NONE OUTSIDE KY 1-800-854-6813

SECTION I PRODUCT IDENTIFICATION

Manufacturer's Code Identification: SP-9586-2 Revision
 Product Class: BLACK AQUA MAR W/R BAKING ENAMEL
 Trade Name: AQUA MAR

SECTION II HAZARDOUS INGREDIENTS

01 GLYCOL ETHER DB CAS# 112-34-5
 PCT BY WT: 7.000

EXPOSURE LIMIT:
 SUPPLIER RECOMMENDED 35 PPM TLV

02 DIMETHYLETHANOLAMINE CAS# 108-01-0
 PCT BY WT: 1-5

EXPOSURE LIMIT:
 ACGIH-TLV (TWA) NOT ESTABLISHED
 OSHA-PEL (8 HR. TWA) NOT ESTABLISHED

03 WATER CAS# 000732-18-5
 PCT BY WT: 50-100

04 CARBON BLACK CAS# 1333-86-4
 PCT BY WT: 2.054

EXPOSURE LIMIT:
 ACGIH-TLV (TWA) 3.5 MG/M3
 OSHA-PEL (8 HR. TWA) 3.5 MG/M3

00010055

SP-9586-2
AQUA MAR

MARCUS PAINT COMPANY
MATERIAL SAFETY DATA SHEET

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SECTION II HAZARDOUS INGREDIENTS

IARC RATING

2B(POSSIBLY CARCINOGENIC TO HUMANS)

05 SECONDARY BUTYL ALCOHOL
PCT BY WT: 5.000

CAS# 78-92-2

EXPOSURE LIMIT:

ACGIH-TLV (TWA) 100 PPM
OSHA-PEL (8 HR. TWA) 100 PPM

06
2-BUTOXYETHANOL
PCT BY WT: 5.000

CAS# 111-76-2

EXPOSURE LIMIT:

ACGIH-TLV (TWA) 25 PPM SKIN
OSHA-PEL (8 HR. TWA) 25 PPM SKIN

This product contains one or more reported carcinogens or suspected carcinogens which are noted NTP, IARC, or OSHA-Z in the other limits recommended column.

This product contains pigments which may become a dust nuisance when removed by abrasive blasting, sanding, or grinding.

SECTION III PHYSICAL DATA

Boiling Range: High- 343.0 F Low- 211.0 F
Vapor Pressure: 12.50 MMHG at 68 F
Vapor Density: Heavier Than Air
Evaporation Rate: Faster than Butyl Acetate
Weight per Gallon: 8.53
Specific Gravity: 1.02
% Volatile by Volume: 73.33
VOC: 3.311 lbs/gal 396.757 grams/liter
Physical State: LIQUID
Appearance: N/A
Odor: N/A
Odor Threshold: N/A
pH: N/A
Freezing Point: N/A
Water Solubility: N/A
Coefficient of Water/Oil Distribution: N/A
Mechanical Impact Explosion: N/A
Static Electricity Explosion: N/A

ed contact can cause moderate irritation, defatting, dermatitis. Based on the presence of components (01) SKIN-Can cause slight irritation.

Based on the presence of components (06) SKIN-Can be absorbed through skin.

Based on the presence of components (02) SKIN-Prolonged contact can result in chemical burns. Prolonged or repeated contact may result in the absorption of harmful amounts.

Based on the presence of components (06) SKIN-Can cause reddening, irritation, dermatitis, possible sensitization.

Based on the presence of components (05) INHALATION-Excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness and even asphyxiation.

Based on the presence of components (02,06) INHALATION-Excessive inhalation of vapors can cause nasal and respiratory irritation.

Based on the presence of components (01) INHALATION-No acute information available.

Based on the presence of components (04) INHALATION-Dust concentrations above the PEL may cause temporary upper respiratory tract discomfort.

Based on the presence of components (05,06) INGESTION-Can cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Based on the presence of components (01) INGESTION-May cause gastrointestinal irritation.

Based on the presence of components (02) INGESTION-Will cause nausea, vomiting, drowsiness, GI pain and cramps.

"EFFECTS OF CHRONIC OVEREXPOSURE"

Based on the presence of components (04) No known adverse chronic health effects, but unnecessary exposure to any chemical should be avoided.

Based on the presence of components (01,05) No long term chronic overexposure information available.

Based on the presence of components (06) Has apparently been found to cause the following in laboratory animals: anemia, liver abnormalities, kidney damage, lung damage, blood abnormalities.

Based on the presence of components (02) Repeated exposure may result in an asthmatic reaction.

"FIRST AID"

EYE CONTACT: Flush with luke warm water for 15 minutes. Seek physician immediately of call emergency number listed in Section I.

SKIN CONTACT: Remove contaminated clothing promptly and rinse effected area with plenty of water. Launder contaminated clothing before reuse. Contact a physician immediately or call emergency number listed in Section I.

INHALATION: Remove exposed individual to fresh air. Restore breathing if required. Contact a physician immediately or call emergency number listed in Section I.

INGESTION: Rinse mouth immediately. Give exposed individual 6 to 8 ounces of liquid if individual can swallow. (Never give anything by mouth to an unconscious person.) DO NOT INDUCE VOMITING unless advised by a physician. Contact a physician immediately or call emergency number listed in Section I.

SECTION VI FIRE-FIGHTING MEASURES

"CONDITIONS TO AVOID"

Based on the presence of components (01,02,05,06) Avoid exposure to sparks, open flame, hot surfaces and all sources of heat ignition.

"HAZARDOUS DECOMPOSITION PRODUCTS:"

Based on the presence of components (01,02,05) Thermal decomposition may form toxic materials: carbon dioxide, carbon monoxide, etc.

Based on the presence of components (06) Thermal Decomposition may form toxic materials: carbon dioxide, carbon monoxide, various hydrocarbons, etc.

"INCOMPATIBILITY (Materials to Avoid)"

Based on the presence of components (01,02,06) Avoid contact with strong oxidizing agents.

Based on the presence of components (05) Avoid contact with strong oxidizing agents, strong mineral acids and strong organic acids, strong oxidizing acids as nitric and sulfuric.

"HAZARDOUS POLYMERIZATION"

Due to the presence of some component(s) Will not occur.

"STABILITY"

Due to the presence of some component(s) This product is stable.

SECTION VII ACCIDENTAL RELEASE MEASURES

"STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED"

Shut off and eliminate all ignition sources. Stay upwind and away from spill unless wearing appropriate protective equipment. Stop and/or contain discharge if it may be done safely. Cover with inert material to reduce fumes. Keep out of drains, sewers or waterways. Contact fire authorities. Notify local health and pollution control agencies. Call spill response teams if large spill.

"WASTE DISPOSAL METHOD"

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

SECTION VIII HANDLING AND STORAGE

MARCUS PAINT COMPANY takes no responsibility for determining what measures are required for personal protection in any specific application.

"PROTECTIVE EYEWEAR"

Avoid contact with eyes. Wear goggles if there is likelihood of contact with eyes. (Consult your safety equipment supplier.) Eyewash stations and safety showers should be readily available in use and handling areas.

"PROTECTIVE GLOVES"

Required for prolonged or repeated contact. Wear resistant gloves such as natural rubber, neoprene, buna N or nitrile. An apron should be worn to avoid skin contact. (Consult your safety equipment supplier.)

"HYGIENIC PRACTICES"

Wash hands thoroughly before eating and using washroom.

"RESPIRATORY PROTECTION"

In outdoor or open areas use (NIOSH/MSHA approved) mechanical filter

respirator to remove solid airborne particles of overspray during spray application. In restricted ventilation areas use (NIOSH/MSHA approved) chemical-mechanical filters designed to remove a combination of particulate and gas and vapor. In confined areas use (NIOSH/MSHA approved) air line type respirators or hoods. Respiratory protection may also be necessary in any later manufacturing operations in which the product may become airborne in the form of vapor or dust. Eyewash stations and safety showers should be readily available in use and handling areas.

"VENTILATION"

Use ventilation as required to control vapor/dust concentrations. Avoid prolonged or repeated breathing of vapors/dust. If exposures exceed TLV, use NIOSH approved respirator to prevent overexposures.

SECTION IX SPECIAL PRECAUTIONS**"HANDLING AND STORING PRECAUTIONS"**

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