

FOR PRINTING INK AND RELATED MATERIALS

VONCO

HAZARD RATINGS:
HEALTH 2 MODERATE
FLAMMABILITY 3 SERIOUS
REACTIVITY 0 MINIMAL

DATE OF PREP. 01-06-94 PREPARED BY: Regulatory Dept.

SECTION I

MANUFACTURER'S NAME: Sun Chemical Corporation
631 Central Avenue, Carlstadt, N J 07072
EMER TEL NO: 201-933-4500 Regulatory Dept.

TRADE NAME: SUNSHEEN REFLEX BLUE

PRODUCT CLASS: SOLVENT INK OR LACQUER

PRODUCT IDENTIFICATION CODE S84-5030-B 08-0004

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENT	AMT (Wt. %)	CAS NO	ACGIH/TLV/STEL	OSHA/PEL
ISOPROPYL ALCOHOL	3.7	67-63-0	400 / 500	400
N-PROPYL ALCOHOL	4.2	71-23-8	200/SKIN / 250/SKIN	200
ETHYL ALCOHOL	28.1	64-17-5	1000 / NONE EST	1000
N-PROPYL ACETATE	5.2	109-60-4	200 / 250	200
HEPTANE	14.8	142-82-5	400 / 500	400
DIBUTYL PHTHALATE	* ** 1.0	84-74-2	5mg/m*3 / NONE EST	5mg/m*3

* denotes items listed in SARA ** denotes items listed under CAA as HAPS

SECTION III - PHYSICAL DATA

BOILING RANGE °F: 173 - 215 PERCENT VOLATILE WT%: 56.7
LIQUID DENSITY VS WATER: LIGHTER EVAPORATION RATE VS. BUTYL ACETATE: FASTER
VAPOR DENSITY VS. AIR: HEAVIER APPEARANCE: BLUE LIQUID
DENSITY (LBS/GAL): 7.65

SECTION IV - FIRE AND EXPLOSION DATA

LOWEST FLASH POINT °F: 25 LOWER EXPLOSION LIMIT - VOL%: 1.1
OSHA: IB - FLAMMABLE DOT: FLAMMABLE LIQUID
EXTINGUISHING MEDIA: FOAM CO2 DRY CHEMICAL

UNUSUAL FIRE AND EXPLOSION HAZARDS: Vapors may ignite explosively. Vapors may spread long distances. Exposure of closed containers to excess heat during fire may cause disruptive pressure.

SPECIAL FIREFIGHTING PROCEDURES: Use water to keep containers cool. The use of SCBA and protective clothing is recommended for fire fighters.

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THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

SECTION V - HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE: Eye contact will cause irritation. Skin contact will cause defatting which can lead to dermatitis. Inhalation of vapors can cause headaches, nausea and irritation of nose and throat. Chronic exposure above the exposure limit can cause injury to the central nervous system and can cause other systemic effects.
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Skin, respiratory disorders.

TARGET ORGANS: EYES, SKIN, RESPIRATORY SYSTEM, CENTRAL NERVOUS SYSTEM, GI TRACT, PERIPHERAL NERVOUS SYS.

PRIMARY ROUTES OF ENTRY: DERMAL INHALATION

EMERGENCY AND FIRST AID PROCEDURES:
EYE CONTACT - Flush with water for 15 minutes - if irritation persists, get medical attention.
SKIN CONTACT - Wash well with soap and water - use suitable handcream.
INHALATION - Remove individual to fresh air. INGESTION - Call physician immediately.

SECTION VI - REACTIVITY DATA

PRODUCT STABILITY: STABLE

CONDITIONS TO AVOID: Avoid contact with strong acids or oxidizers.

SECTION VII - SPILL OR LEAK PROCEDURES

PROCEDURE WHEN MATERIAL SPILLED OR RELEASED:
Remove by using suitable inert absorbing materials.
Eliminate all sources of vapor ignition. Ventilate area.

WASTE DISPOSAL METHOD: In accordance with applicable local, state and federal regulations.

SECTION VIII - SPECIAL PROTECTION INFORMATION

VENTILATION: Use sufficient local and general ventilation to maintain vapor concentrations below stated exposure limits.

PROTECTIVE ITEMS: Impervious gloves and safety glasses or goggles should be worn during handling procedures where splashing is possible.

RESPIRATORY PROTECTION: If exposure limits are exceeded a supplied air respirator should be worn.

OTHER PROTECTIVE EQUIPMENT: Protective clothing to prevent body contact.

SECTION IX - SPECIAL HANDLING

HANDLING AND STORAGE: Keep containers closed when not in use.
Keep away from excessive heat. Avoid freezing.

OTHER PRECAUTIONS: NONE KNOWN

COMPLETE VOC (VOLATILE ORGANIC COMPOUND) BREAKDOWN

SUN CHEMICAL CORP CODE ID#: S84-5030-B [% BY WEIGHT OF TOTAL FORMULA]

SOLIDS	43.3
ISOPROPYL ALCOHOL	3.7
N-PROPYL ALCOHOL	4.2
ETHYL ALCOHOL	28.1
N-PROPYL ACETATE	5.2
HEPTANE	14.8
TOLUENE	0.5
TOTAL	100.0

VOC DENSITY IN LB/GAL	6.46
SOLIDS DENSITY IN LB/GAL	10.08
VOLATILES DENSITY IN LB/GAL	6.46

VOC'S AS PERCENTAGE OF INK

WEIGHT %	56.7
VOLUME %	67.1

VOC'S AS PERCENTAGE OF LIQUID

WEIGHT %	100.0
VOLUME %	100.0

INFORMATION FOR WEST COAST VOC RULES

1. LBS VOC'S PER GALLON INK LESS WATER LESS EXEMPT SOLVENT: 4.3
GMS VOC'S PER LITER INK LESS WATER LESS EXEMPT SOLVENT: 520.0
 2. LBS VOC'S PER GALLON INK: 4.3
GMS VOC'S PER LITER INK: 520.0
 3. DENSITY OF INK IN LBS PER GALLON: 7.65
 4. % WATER IN INK BY WEIGHT: 0.0
 5. % EXEMPT SOLVENT IN INK BY WEIGHT: 0.0
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VOLUME % WATER	0.0
VOLUME % SOLIDS	32.9
LBS VOC'S PER GALLON SOLIDS	13.2

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MATERIAL SAFETY DATA SHEET
FOR PRINTING INK AND RELATED MATERIALS

08-0227
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HAZARD RATINGS:
HEALTH 2 MODERATE
FLAMMABILITY 3 SERIOUS
REACTIVITY 0 MINIMAL

DATE OF PREP. 06-27-94 PREPARED BY: Regulatory Dept.

SECTION I

MANUFACTURER'S NAME: Sun Chemical Corporation
631 Central Avenue, Carlstadt, N J 07072
EMER TEL NO: 201-933-4500 Regulatory Dept.

TRADE NAME: FLEXO WRITE-ON WHITE

PRODUCT CLASS: SOLVENT INK OR LACQUER

PRODUCT IDENTIFICATION CODE RLB11121F/S

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENT	AMT (Wt. %)	CAS NO	ACGIH/TLV/STEL	OSHA/PPL
ISOPROPYL ALCOHOL	6.3	67-63-0	400 / 500	400
N-PROPYL ALCOHOL	2.4	71-23-8	200/SKIN / 250/SKIN	200
ETHYL ALCOHOL	24.4	64-17-5	1000 / NONE EST	1000
N-PROPYL ACETATE	7.3	109-60-4	200 / 250	200
PROPYLENE GLYCOL MONOMETHYL ETHER	2.0	107-98-2	100 / 150	100

SECTION III - PHYSICAL DATA

BOILING RANGE °F: 173 - 249 PERCENT VOLATILE WT%: 43.1
LIQUID DENSITY VS WATER: HEAVIER EVAPORATION RATE VS. BUTYL ACETATE: FASTER
VAPOR DENSITY VS. AIR: HEAVIER APPEARANCE: WHITE LIQUID
DENSITY (LBS/GAL): 9.76

SECTION IV - FIRE AND EXPLOSION DATA

LOWEST FLASH POINT °F: 53 LOWER EXPLOSION LIMIT - VOL%: 1.6
OSHA: IB - FLAMMABLE DOT: FLAMMABLE LIQUID
EXTINGUISHING MEDIA: FOAM CO2 DRY CHEMICAL

UNUSUAL FIRE AND EXPLOSION HAZARDS: Vapors may ignite explosively. Vapors may spread long distances. Exposure of closed containers to excess heat during fire may cause disruptive pressure.

SPECIAL FIREFIGHTING PROCEDURES: Use water to keep containers cool. The use of SCBA and protective clothing is recommended for fire fighters.



SECTION V - HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE: Eye contact will cause irritation. Skin contact will cause defatting which can lead to dermatitis. Inhalation of vapors can cause headaches, nausea and irritation of nose and throat. Chronic exposure above the exposure limit can cause injury to the central nervous system and can cause other systemic effects.
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Skin, respiratory disorders.

TARGET ORGANS: EYES, SKIN, RESPIRATORY SYSTEM, CENTRAL NERVOUS SYSTEM, GI TRACT.

PRIMARY ROUTES OF ENTRY: DERMAL INHALATION

EMERGENCY AND FIRST AID PROCEDURES:
EYE CONTACT - Flush with water for 15 minutes - if irritation persists, get medical attention.
SKIN CONTACT - Wash well with soap and water - use suitable handcream.
INHALATION - Remove individual to fresh air. **INGESTION** - Call physician immediately.

SECTION VI - REACTIVITY DATA

PRODUCT STABILITY: STABLE

CONDITIONS TO AVOID: Avoid contact with strong acids or oxidizers.

SECTION VII - SPILL OR LEAK PROCEDURES

PROCEDURE WHEN MATERIAL SPILLED OR RELEASED:
Remove by using suitable inert absorbing materials.
Eliminate all sources of vapor ignition. Ventilate area.

WASTE DISPOSAL METHOD: In accordance with applicable local, state and federal regulations.

SECTION VIII - SPECIAL PROTECTION INFORMATION

VENTILATION: Use sufficient local and general ventilation to maintain vapor concentrations below stated exposure limits.

PROTECTIVE ITEMS: Impervious gloves and safety glasses or goggles should be worn during handling procedures where splashing is possible.

RESPIRATORY PROTECTION: If exposure limits are exceeded a supplied air respirator should be worn.

OTHER PROTECTIVE EQUIPMENT: Protective clothing to prevent body contact.

SECTION IX - SPECIAL HANDLING

HANDLING AND STORAGE: Keep containers closed when not in use.
Keep away from excessive heat. Avoid freezing.

OTHER PRECAUTIONS: NONE KNOWN

LETE VOC (VOLATILE ORGANIC COMPOUND) BREAKDOWN

SUN CHEMICAL CORP CODE ID#: RLB11121F/S [% BY WEIGHT OF TOTAL FORMULA]

SOLIDS	56.8
ISOPROPYL ALCOHOL	6.3
N-PROPYL ALCOHOL	2.4
ETHYL ALCOHOL	24.4
N-PROPYL ACETATE	7.3
PROPYLENE GLYCOL MONOMETHYL ETHER	2.0
VM&P NAPHTHA	0.7
TOTAL	99.9

VOC DENSITY IN LB/GAL	6.77
SOLIDS DENSITY IN LB/GAL	14.66
VOLATILES DENSITY IN LB/GAL	6.77

VOC'S AS PERCENTAGE OF INK		VOC'S AS PERCENTAGE OF LIQUID	
WEIGHT %	43.1	WEIGHT %	100.0
VOLUME %	62.2	VOLUME %	100.0

INFORMATION FOR WEST COAST VOC RULES

1. LBS VOC'S PER GALLON INK LESS WATER LESS EXEMPT SOLVENT: 4.2
GMS VOC'S PER LITER INK LESS WATER LESS EXEMPT SOLVENT: 505.0
2. LBS VOC'S PER GALLON INK: 4.2
GMS VOC'S PER LITER INK: 505.0
3. DENSITY OF INK IN LBS PER GALLON: 9.76
4. % WATER IN INK BY WEIGHT: 0.0
5. % EXEMPT SOLVENT IN INK BY WEIGHT: 0.0

VOLUME % WATER	0.0
VOLUME % SOLIDS	37.8
LBS VOC'S PER GALLON SOLIDS	11.1

0227-C

MATERIALS SAFETY DATA BULLETIN

POLYETHYLENE (LOW DENSITY) **JONCO**



Westlake Polymers Corporation

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AA-7

WESTLAKE POLYMERS CORPORATION
WESTLAKE CENTER
2801 POST OAK BOULEVARD
HOUSTON, TX 77056
(713) 960-9111

PRODUCT IDENTIFICATION

Suppliers: WESTLAKE POLYMERS CORP.	Chemical Names and Synonyms: POLYETHYLENE (LOW DENSITY)	Emergency Telephone: 1-318-882-0273
Use or Description: FILM EXTRUSION, MOLDING, COATING, LAMINATING		

COMPONENTS AND EXPOSURE LIMITS

Component: POLYETHYLENE (CAS 9002-88-4)	% Volume: 100%	Exposure Limits: 15.0 mg/m ³ OSHA NUISANCE DUST
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TYPICAL PROPERTIES

Appearance: TRANSLUCENT PELLETS	Boiling Point: NA	Solubility in Water: NEGLIGIBLE
PH: NA	Odor: MILD	Vapor Pressure: NA
%Volatility by Weight: 0.1 MAX	Specific Gravity: 0.91-1.05	Vapor Density: NA
Evaporation Rate: NA	Melting Point: F(C) 230(110)	Molecular Weight: AVERAGE 125,000

FIRE AND EXPLOSION HAZARDS

Auto Ignition Temperature: NA	Flash Point: NONE	Flammable Limits in Air: NA
NFPA Hazard: 0-1-0-NA	HMIS Rating: 0-1-0	
Extinguishing Media: CARBON DIOXIDE, FOAM, DRY CHEMICAL, AND WATER FOG		
Special Fire Fighting Procedures: DO NOT ENTER ENCLOSED SPACE WITHOUT USING SELF-CONTAINED BREATHING APPARATUS		
Unusual Fire and Explosion Hazards: BULK STORAGE OF POLYETHYLENE PELLETS MAY RESULT IN THE ACCUMULATION OF ETHYLENE GAS WITH POSSIBLE EXPLOSIVE POTENTIAL; CONCENTRATION OF ETHYLENE GAS MUST BE KEPT BELOW THE LOWER LIMIT (LEL) OF 2.7%		

HEALTH HAZARDS

Acute Health Effects: EYES: DUST MAY CAUSE IRRITATION OR REDNESS; FUMES FROM MOLTEN PRODUCT MAY CAUSE IRRITATION OR REDNESS SKIN: PRODUCT AS IS SHOULD NOT CAUSE IRRITATION OR DERMATITIS; MOLTEN PRODUCT MAY CAUSE THERMAL BURNS INHALATION: INHALATION OF FINES OR FUMES FROM MOLTEN PRODUCT MAY CAUSE IRRITATION TO THE NOSE OR THROAT INGESTION: NOT EXPECTED TO CAUSE ADVERSE REACTION IF INGESTED		
Chronic Health Effects: NONE ARE KNOWN	Medical Conditions Aggravated by Exposure: NONE ARE KNOWN	Primary Routes of Entry: INHALATION, INGESTION
Carcinogenicity Status: Occupational Safety and Health Administration: NOT LISTED National Toxicity Program: NOT LISTED International Agency for Research on Cancer: NOT LISTED		
Toxicological Data: NON-TOXIC BASED ON STUDIES OF SIMILAR PRODUCTS AND THEIR COMPONENTS		

FIRST AID PROCEDURES

Eyes: FLUSH WITH PLENTY OF WATER; IF IRRITATION CONTINUES; GET MEDICAL ATTENTION	
Wash Skin: WASH SKIN WITH SOAP AND WATER; FOR THERMAL BURNS, COOL MOLTEN MATERIALS WITH WATER AND GET MEDICAL ATTENTION	
Inhalation: IF OVERCOME BY DUST OR FUMES, REMOVE TO FRESH AIR; IF BREATHING IS DIFFICULT, GIVE OXYGEN AND GET MEDICAL ATTENTION; IF VICTIM HAS STOPPED BREATHING, GIVE ARTIFICIAL RESPIRATION AND GET MEDICAL ATTENTION	
Ingestion: NO FIRST AID MEASURES SHOULD BE NECESSARY	

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PERSONAL PROTECTION

RESPIRATORY MASKS IF DUST LEVELS EXCEED 15.0 mg/m³

PROTECTIVE GLOVES AND LONG SLEEVES WHEN HANDLING MOLTEN MATERIAL

SAFETY GLASSES SHOULD BE WORN AT ALL TIMES; SAFETY GOGGLES SHOULD BE WORN WHEN HANDLING MOLTEN MATERIAL

LOCAL VENTILATION IS RECOMMENDED TO REDUCE DUST AND FUMES WHEN HANDLING MOLTEN MATERIAL

REACTIVITY DATA

Hazardous Thermal Decomposition Products: INCOMPLETE COMBUSTION MAY PRODUCE CARBON DIOXIDE, CARBON MONOXIDE, and ALDEHYDES

Stability: MATERIAL IS STABLE

Incompatible Materials: THIS MATERIAL IS INCOMPATIBLE WITH STRONG OXIDIZERS

Hazardous Materials: NONE ARE KNOWN

Hazardous Polymerization: WILL NOT OCCUR

SPILL LEAK AND DISPOSAL PROCEDURES

Spill and Leak Procedures: SWEEP OR SHOVEL UP AND HOLD FOR DISPOSAL

Waste Management Procedures: PRODUCT IS NON-HAZARDOUS IN ITS NEAT FORM

Environmental Impact: THIS MATERIAL IS NOT EXPECTED TO PRESENT ANY ENVIRONMENTAL PROBLEMS

ADDITIONAL PRECAUTIONS

Storage: STORE IN A VENTILATED AREA AWAY FROM SOURCES OF IGNITION; DO NOT STORE WITH INCOMPATIBLE MATERIALS

Transfer: STATIC GROUNDING RECOMMENDED PRIOR TO TRANSFER OF PRODUCT

REGULATORY DATA

Occupational Safety and Health Administration: NUISANCE DUST

Resource Conservation Recovery Act: NOT REGULATED

Superfund Amendments Reauthorization Act: NOT REGULATED

Proposition 65: NOT REGULATED

Department of Transportation: NOT REGULATED

USER RESPONSIBILITY

This bulletin cannot cover all possible situations which the user may experience during processing. Each aspect of the user's operation should be examined to determine if, or where, additional actions may be necessary. All health and safety contained in this bulletin should be provided to employees and/or customers. Westlake Polymers Corporation must rely on the user to use this information to develop appropriate work practice guidelines and employee instructional programs specific to the user's operations.

As the conditions and methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for any use of this material. Information contained herein is believed to be true and accurate, but all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. Compliance with all applicable federal, state, and local laws and regulations regarding the use, storage, sale, transport or disposal of this material is the responsibility of the user.

31-B

MATERIAL SAFETY DATA SHEET

FOR PRINTING INK AND RELATED MATERIALS

HAZARD RATINGS:
HEALTH 2 MODERATE
FLAMMABILITY 3 SERIOUS
REACTIVITY 0 MINIMAL

DATE OF PREP. 06/06/91 PREPARED BY: Regulatory Dept.

SECTION I

MANUFACTURER'S NAME: **08-0303**

Sun Chemical Corporation
631 Central Avenue, Carlstadt, N J 07072
EMER TEL NO: 201-933-4500 Regulatory Dept.

TRADE NAME: SUNSHARP G/S CYAN BLUE

PRODUCT CLASS: SOLVENT INK OR LACQUER

MANUFACTURER'S CODE IDENTIFICATION RLA51181F/S

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENT	AMT	CAS NO	ACGIH/TLV/STEL	OSHA/PEL
N-PROPYL ALCOHOL	42.0	71-23-8	200/SKIN / 250/SKIN	200
ETHYL ALCOHOL	1.4	64-17-5	1000 / NONE EST	1000
ISOPROPYL ACETATE	1.1	108-21-4	250 / 310	250
N-PROPYL ACETATE	4.1	109-60-4	200 / 250	200
HEPTANE	1.2	142-82-5	400 / 500	400
TOLUENE	5.0	108-88-3	100 / 150	100

* denotes items listed in SARA AMT = percent by weight of ingredient in total formula

SECTION III - PHYSICAL DATA

BOILING RANGE °F: 173 - 231 PERCENT VOLATILE WT%: 56.7
 LIQUID DENSITY VS WATER: LIGHTER EVAPORATION RATE VS. BUTYL ACETATE: FASTER
 VAPOR DENSITY VS. AIR: HEAVIER APPEARANCE: BLUE LIQUID

SECTION IV - FIRE AND EXPLOSION DATA

LOWEST FLASH POINT °F: 25 LOWER EXPLOSION LIMIT - VOL%: 1.0
 OSHA: I B DOT: FLAMMABLE

EXTINGUISHING MEDIA: FOAM CO2 DRY CHEMICAL

UNUSUAL FIRE AND EXPLOSION HAZARDS: Vapors may ignite explosively. Vapors may spread long distances. Exposure of closed containers to excess heat during fire may cause disruptive pressure.

SPECIAL FIREFIGHTING PROCEDURES: Use water to keep containers cool.

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SECTION V - HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE: Eye contact will cause irritation. Skin contact will cause defatting which can lead to dermatitis. Inhalation of vapors can cause headaches, nausea and irritation of nose and throat. Chronic exposure above the TLV can cause injury to the central nervous system and can cause other systemic effects.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Skin disease, respiratory disorders.

TARGET ORGANS: EYES, SKIN, RESPIRATORY SYSTEM, CENTRAL NERVOUS SYSTEM, KIDNEYS, LIVER, GI TRACT, PERIPHERAL NERVOUS SYS.

PRIMARY ROUTES OF ENTRY: DERMAL INHALATION

EMERGENCY AND FIRST AID PROCEDURES:

EYE CONTACT - Flush with water for 15 minutes - if irritation persists, get medical attention.

SKIN CONTACT - Wash well with soap and water - use suitable handcream.

INHALATION - Remove individual to fresh air. **INGESTION** - Call physician immediately.

SECTION VI - REACTIVITY DATA

PRODUCT STABILITY: STABLE

CONDITIONS TO AVOID: Avoid contact with strong acids or oxidizers.

SECTION VII - SPILL OR LEAK PROCEDURES

PROCEDURE WHEN MATERIAL SPILLED OR RELEASED:

Remove by using suitable inert absorbing materials.

Eliminate all sources of vapor ignition. Ventilate area.

WASTE DISPOSAL METHOD: In accordance with applicable local, state and federal regulations.

SECTION VIII - SPECIAL PROTECTION INFORMATION

VENTILATION: Use sufficient local and general ventilation to maintain vapor concentrations below stated TLVs and LEL.

PROTECTIVE ITEMS: Impervious gloves and goggles or face shield should be worn during handling procedures where splashing is possible.

RESPIRATORY PROTECTION: None required under normal operating conditions.

OTHER PROTECTIVE EQUIPMENT: Protective clothing to prevent body contact.

SECTION IX - SPECIAL HANDLING

HANDLING AND STORAGE: Keep containers closed when not in use.
Keep away from excessive heat. Avoid freezing.

OTHER PRECAUTIONS: NONE KNOWN

COMPLETE VOC (VOLATILE ORGANIC COMPOUND) BREAKDOWN

SUN CHEMICAL CORP CODE ID#: RLA51181F/S [% BY WEIGHT OF TOTAL FORMULA]

SOLIDS	43.3
WATER	0.8
METHYL ALCOHOL	0.2
ISOPROPYL ALCOHOL	0.9
N-PROPYL ALCOHOL	42.0
ETHYL ALCOHOL	1.4
ISOPROPYL ACETATE	1.1
N-PROPYL ACETATE	4.1
HEPTANE	1.2
TOLUENE	5.0
TOTAL	100.0

VOC DENSITY IN LB/GAL	6.78
SOLIDS DENSITY IN LB/GAL	9.97
VOLATILES DENSITY IN LB/GAL	6.79

VOC'S AS PERCENTAGE OF INK

WEIGHT %	55.9
VOLUME %	65.0

VOC'S AS PERCENTAGE OF LIQUID

WEIGHT %	98.6
VOLUME %	98.9

INFORMATION FOR WEST COAST VOC RULES

1. LBS VOC'S PER GALLON INK LESS WATER LESS EXEMPT SOLVENT: 4.4
GMS VOC'S PER LITER INK LESS WATER LESS EXEMPT SOLVENT: 532.6
2. LBS VOC'S PER GALLON INK: 4.4
GMS VOC'S PER LITER INK: 528.6
3. DENSITY OF INK IN LBS PER GALLON: 7.88
4. % WATER IN INK BY WEIGHT: 0.8
5. % EXEMPT SOLVENT IN INK BY WEIGHT: 0.0

0303-E

MATERIAL SAFETY DATA SHEET

VONCO

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REED PLASTICS CORPORATION:
 17 INDUSTRIAL DRIVE 724 ELLIOT DRIVE 1339 AVENUE E EAST
 HOLDEN, MA 01520 ALBION, MI 49224 GRAND PRAIRIE, TX 75050
 (508) 829-6321 (517) 829-9101 (214) 647-8282

SECTION I - PRODUCT IDENTIFICATION

PRODUCT NAME: UN9021
 CHEMICAL NAME: Proprietary resin + colorant
 CHEMICAL FAMILY: Proprietary resin + colorant
 DATE PREPARED: 2/19/91

EMERGENCY TELEPHONE NUMBER: SEE ABOVE.

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SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

* The following information provided on the below hazardous pigment(s) applies to the pigment(s) in the pure dry form. The form of the pigment provided to you is encapsulated in plastic, and therefore, the likelihood of exposure is much less, even to the point of negligible. We therefore consider the level of hazard to be negligible.

HAZARDOUS COMPONENTS (SPECIFIC CHEMICAL IDENTITY; COMMON NAME)	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED	% DOES NOT EXCEED	CAS #
* CHROMIUM IRON OXIDE	-	-	-	4.0	12737-27-8
CHROMIUM (III) COMPS, AS CR	0.5	0.5	-	-	-
* TITANIUM DIOXIDE	-	-	-	46.0	13463-67-7
ALUMINUM OXIDE	-	10.0	-	-	-
SILICA, AMORPHOUS FUMED	80.0	-	-	-	-
TITANIUM DIOXIDE, RESPIRABLE	5.0	-	-	-	-
TITANIUM DIOXIDE, TOTAL DUST	10.0	10.0	-	-	-

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT: N.A.
 VAPOR PRESSURE (mm Hg): N.A.
 VAPOR DENSITY (AIR = 1): N.A.
 SOLUBILITY IN WATER: Insoluble
 APPEARANCE AND ODOR: Colored plastic pellets - no significant odor.
 SPECIFIC GRAVITY (H2O = 1): N.E.
 MELTING POINT: Not examined
 EVAPORATION RATE (ETHYL ACETATE = 1): N.A.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED): Not examined. FLAMMABLE LIMITS: LEL: N.E. UEL: N.E.
 EXTINGUISHING MEDIA: Water spray, dry chemical or foam spray.
 SPECIAL FIRE FIGHTING PROCEDURES: Use a self-contained breathing apparatus.
 UNUSUAL FIRE AND EXPLOSION HAZARDS: None known.

PRODUCT NAME: UN8021

SECTION V - REACTIVITY DATASTABILITY: STABLE X UNSTABLE _____

CONDITIONS TO AVOID: Temperatures over 300C.

INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: CO, CO2, and/or low molecular weight hydrocarbons.

HAZARDOUS POLYMERIZATION: MAY OCCUR _____ MAY NOT OCCUR X

CONDITIONS TO AVOID: None known.

SECTION VI - HEALTH HAZARD DATAHEALTH HAZARDS (ACUTE AND CHRONIC):

INHALATION: Pellets not respirable. Inhalation of fines from ground pellets can irritate the nose and throat. Fumes from the molten plastic should not be inhaled unnecessarily. Proper ventilation should be used.

SKIN: Skin contact with the pellets as received does not present any known health hazard. Hot molten polymer will cause severe thermal burns.

INGESTION: Not a probable route of exposure.

Is any chemical in this product at a concentration of 0.1 % or more classified as a carcinogen by IARC, NTP, or OSHA? NO.

SIGNS AND SYMPTOMS OF EXPOSURE:

* NOTE: The following information provided on the hazardous pigment(s) applies to the pigment(s) in the pure dry form. The form of the pigment provided to you is encapsulated in plastic, and therefore, the likelihood of exposure is much less, even to the point of negligible. We therefore consider the level of hazard to be negligible.

- Proprietary resin: Solid or dusts may irritate eyes, skin and respiratory tract. Excessive exposure to vapors may cause irritation to upper respiratory tract and lungs.
- * Chromium Iron Oxide: Gastric disturbances and respiratory irritation. May also cause eye irritation.
- * Titanium Dioxide: According to a manufacturers inhalation tests in rats, dust from dried product produced an inert or nuisance dust response in the lungs.

PRODUCT NAME: UNB021

SECTION VI - HEALTH HAZARD DATA (CONTINUED)MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

* NOTE: The following information provided on the hazardous pigment(s) applies to the pigment(s) in the pure dry form. The form of the pigment provided to you is encapsulated in plastic, and therefore, the likelihood of exposure is much less, even to the point of negligible. We therefore consider the level of hazard to be negligible.

Proprietary resin: None known.

* Chromium Iron Oxide: Chronic exposure has been associated with x-ray changes of the lungs, however, it does not result in illness. Changes are due to a benign lung condition called siderosis, or iron pigmentation.

* Titanium Dioxide: None known.

EMERGENCY AND FIRST AID PROCEDURES:

INHALATION: Ventilation should be provided to control fumes and odors, and any dusty conditions due to fines created from grinding pellets. If exposed to fumes from overheating or from combustion, move to fresh air. Consult a physician.

SKIN: If molten polymer contacts the skin, cool rapidly with cold water. Do not attempt to peel polymer from skin. Obtain medical attention for thermal burn. Skin absorption of reground pellets is unlikely.

INGESTION: Not a probable route of exposure.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE:

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Normal clean up of pellets to avoid slipping.

WASTE DISPOSAL METHOD: Landfill in accordance with local, state, and federal regulations.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Store in closed containers to avoid contamination.

OTHER PRECAUTIONS: Not to be taken internally.

SECTION VIII - CONTROL MEASURES

RESPIRATORY PROTECTION: Use NIOSH/MESA approved equipment for dust or as needed.

VENTILATION: Use local exhaust.

PROTECTIVE GLOVES: When polymer is hot.

EYE PROTECTION: Use safety glasses.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Not necessary.

WORK/HYGIENE PRACTICES: Do not eat, drink, or smoke in work area.

PRODUCT NAME: UN8021

SECTION IX - OTHER REGULATORY INFORMATION

TSCA - All ingredients used to produce the above concentrate are listed in the Toxic Substances and Control Act Inventory as required by Federal Law.

BARA - This product contains the following toxic chemical(s) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

TOXIC CHEMICAL	CAS #	CONCENTRATION
CHROMIUM COMPOUNDS	N.A.	DOES NOT EXCEED 4.0 %

This notification must not be detached from the MSDS. Any copying and redistribution of the MSDS must include copying and redistribution of this notice attached to copies of the MSDS.

SECTION X - STATE REGULATORY INFORMATION

PROPOSITION 65: WARNING - This material contains the following chemicals known to the State of California to cause cancer:
- - CHROMIUM COMPOUND

CA PROPOSITION 65: WARNING - This material contains the following chemicals known to the State of California to cause birth defects or other reproductive harm:
NONE

MASSACHUSETTS: Any component of this product which is a hazardous chemical as listed in the Massachusetts Substance List is shown in Section II of this MSDS. Any listed chemicals not shown in Section II are as follows:
NONE

PENNSYLVANIA: Non-hazardous ingredients are being withheld as trade secret information. Any component of this product which is a hazardous chemical as listed on the Pennsylvania Hazardous Substance List is given in Section II of this MSDS. Any listed chemicals not shown in Section II are as follows:
NONE

CANADIAN WHMIS: Any component of this product which is a hazardous chemical as given in WHMIS is shown in Section II of this MSDS. Any listed chemicals not shown in Section II are as follows:
NONE

This information is accurate and reliable to the best of our knowledge. It is furnished without warranty, expressed or implied. Reed Plastics Corporation assumes no legal responsibility for the use of, or reliance upon, these data for hazards which might be associated with the use of this material or for the results obtained. It is the responsibility of the user to comply with all applicable laws and regulations.

17 INDUSTRIAL DRIVE
MOLLEN, MA 01510
(508) 829-6321

931 ELLIOT DRIVE
ALEXON, RI 02224
(517) 829-4101

0223176-000 6-3-91
1309 AVENUE H EAST
GRAND PRINCE, TX 75050
(214) 847-8282

VONCB

EMERGENCY TELEPHONE NUMBER: SEE ABOVE.

SECTION I - PRODUCT IDENTIFICATION

PRODUCT NAME: UN8029
CHEMICAL NAME: Proprietary resin + colorant
CHEMICAL FAMILY: Proprietary resin + colorant
PREPARED: 2/19/91

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

The following information provided on the below hazardous pigment(s) applies to the pigment(s) in the pure dry form. The form of the pigment provided to you is encapsulated in plastic, and therefore, the likelihood of exposure is much less, even to the point of negligible. We therefore consider the level of hazard to be negligible.

HAZARDOUS COMPONENTS SPECIFIC CHEMICAL IDENTITY; COMMON NAME)	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED	% DOES NOT EXCEED	CAS #
IRON OXIDE	-	-	-	-	-
DUST & FUME, TOTAL PARTICULATE	10.0	-	-	11.0	1309-57-1
FUME	-	5.0	-	-	-
TITANIUM DIOXIDE	-	-	-	-	-
ALUMINUM OXIDE	-	10.0	-	4.0	13463-67-7
SILICA, AMORPHOUS FUMED	80.0	-	-	-	-
TITANIUM DIOXIDE, RESPIRABLE	5.0	-	-	-	-
TITANIUM DIOXIDE, TOTAL DUST	10.0	10.0	-	-	-

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT: N.A.
VAPOR PRESSURE (mm Hg): N.A.
VAPOR DENSITY (AIR = 1): N.A.
SOLUBILITY IN WATER: Insoluble
APPEARANCE AND ODOR: Colored plastic pellets - no significant odor.

SPECIFIC GRAVITY (H₂O = 1): N.E.
MELTING POINT: Not examined
EVAPORATION RATE (BUTYL ACETATE = 1): N.A.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED): Not examined.
EXTINGUISHING MEDIA: Water spray, dry chemical or foam spray.

FLAMMABLE LIMITS: LEL: N.E. UEL: N.E.

SPECIAL FIRE FIGHTING PROCEDURES: Use a self-contained breathing apparatus.

USUAL FIRE AND EXPLOSION HAZARDS: None known.

PRODUCT NAME: D12029

SECTION V - REACTIVITY DATA

STABILITY: STABLE UNSTABLE

CONDITIONS TO AVOID: Temperatures over 300C.

INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: CO, CO2, and/or low molecular weight hydrocarbons.
A residue which contains iron oxide.HAZARDOUS POLYMERIZATION: MAY OCCUR MAY NOT OCCUR

CONDITIONS TO AVOID: None known.

SECTION VI - HEALTH HAZARD DATA

HEALTH HAZARDS (ACUTE AND CHRONIC):

INHALATION: Pellets not respirable. Inhalation of fines from ground pellets can irritate the nose and throat. Fumes from the molten plastic should not be inhaled unnecessarily. Proper ventilation should be used.

SKIN: Skin contact with the pellets as received does not present any known health hazard. Hot molten polymer will cause severe thermal burns.

INGESTION: Not a probable route of exposure.

Is any chemical in this product at a concentration of 0.1 % or more classified as a carcinogen by IARC, NTP, or OSHA? NO.

III - W/D SYMPTOMS OF EXPOSURE:

NOTE: The following information provided on the hazardous pigment(s) applies to the pigment(s) in the pure dry form. The form of the pigment provided to you is encapsulated in plastic, and therefore, the likelihood of exposure is much less, even to the point of negligible. We therefore consider the level of hazard to be negligible.

Proprietary resin: Solid or dusts may irritate eyes, skin and respiratory tract.

Excessive exposure to vapors may cause irritation to upper respiratory tract and lungs.

- * Iron Oxide: Inhalation of iron oxide fumes or dust may cause a benign pneumoconiosis. The iron oxide in this product is well contained within the polymer base, no problems of this nature are expected with this product.
- * Titanium Dioxide: According to a manufacturer's inhalation tests in rats, dust from dried product produced an inert or nuisance dust response in the lungs.

PRODUCT NAME: UN3029

SECTION VI - HEALTH HAZARD DATA (CONTINUED)MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

* NOTE: The following information provided on the hazardous pigment(s) applies to the pigment(s) in the pure dry form. The form of the pigment provided to you is encapsulated in plastic, and therefore, the likelihood of exposure is much less, even to the point of negligible. We therefore consider the level of hazard to be negligible.

- Proprietary resin: None known.
- * Iron Oxide: No known effects or other illnesses for this product.
- * Titanium Dioxide: None known.

EMERGENCY AND FIRST AID PROCEDURES:

INHALATION: Ventilation should be provided to control fumes and odors, and any dusty conditions due to fines created from grinding pellets. If exposed to fumes from overheating or from combustion, move to fresh air. Consult a physician.

SKIN: If molten polymer contacts the skin, cool rapidly with cold water. Do not attempt to peel polymer from skin. Obtain medical attention for thermal burn. Skin absorption of reground pellets is unlikely.

INGESTION: Not a probable route of exposure.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE:

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Normal clean up of pellets to avoid slipping.

WASTE DISPOSAL METHOD: Landfill in accordance with local, state, and federal regulations.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Store in closed containers to avoid contamination.

OTHER PRECAUTIONS: Not to be taken internally.

SECTION VIII - CONTROL MEASURES

RESPIRATORY PROTECTION: Use NIOSH/MESA approved equipment for dust or as needed.

VENTILATION: Use local exhaust.

PROTECTIVE GLOVES: When polymer is hot.

EYE PROTECTION: Use safety glasses.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Not necessary.

WORK/HYGIENE PRACTICES: Do not eat, drink, or smoke in work area.

PRODUCT NAME: UN8029

SECTION IX - OTHER REGULATORY INFORMATION

SCA - All ingredients used to produce the above concentrate are listed in the Toxic Substances and Control Act Inventory as required by Federal Law.

ARA - This product contains the following toxic chemical(s) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

TOXIC CHEMICAL	CAS #	CONCENTRATION
NONE		

This notification must not be detached from the MSDS. Any copying and redistribution of the MSDS must include copying and redistribution of this notice attached to copies of the MSDS.

SECTION X - STATE REGULATORY INFORMATION

ALABAMA PROPOSITION 65: WARNING - This material contains the following chemicals known to the State of California to cause cancer:
NONE

ALABAMA PROPOSITION 65: WARNINGS - This material contains the following chemicals known to the State of California to cause birth defects or other reproductive harm:
NONE

MASSACHUSETTS: Any component of this product which is a hazardous chemical as listed in the Massachusetts Substance List is shown in Section II of this MSDS. Any listed chemicals not shown in Section II are as follows:
NONE

PENNSYLVANIA: Non-hazardous ingredients are being withheld as trade secret information. Any component of this product which is a hazardous chemical as listed on the Pennsylvania Hazardous Substance List is given in Section II of this MSDS. Any listed chemicals not shown in Section II are as follows:
NONE

VIRGINIA WHMIS: Any component of this product which is a hazardous chemical as given in WHMIS is shown in Section II of this MSDS. Any listed chemicals not shown in Section II are as follows:
NONE

This information is accurate and reliable to the best of our knowledge. It is furnished without warranty, expressed or implied. Reed Plastics Corporation assumes no legal responsibility for the use of, or reliance upon, these data for purposes which might be associated with the use of this material or for the results obtained. It is the responsibility of the user to comply with all applicable laws and regulations.

SECTION I - IDENTIFICATION

PRODUCT NUMBER: GOLD 3E

DATE : 6/23/91

MANUFACTURER: Marco Color Labs
12410 Wilkie Avenue
Hawthorne, CA. 90250

TELEPHONE NO: (213) 756-8113

SECTION II - HAZARD RATING

HAZARD CLASSIFICATION: HEALTH - FLAMMABILITY - REACTIVITY - 1

DRY COLOR MIXTURE COMPOSITION:

COMPONENT	CAS NUMBER	OSHA PEL	ACGIH TLV
EPOXY RESIN		15MG/CU.	16GM/KG

SECTION III - PHYSICAL PROPERTIES

APPEARANCE AND ODOR - ODORLESS POWDER

BOILING POINT - N/A

SPECIFIC GRAVITY (WATER=1) 1.5 TO 5.0 VARIES WITH FORMULA

VAPOR PRESSURE - N/A VAPOR DENSITY (AIR=1) - N/A

SOLUBILITY IN WATER - NEGLIGIBLE

REACTS IF EXPOSED TO: LIGHT - N/A AIR - N/A WATER - N/A

SECTION IV - FIRE OR EXPLOSION DATA

FLASH POINT (F.) - N/A AUTO-IGNITION TEMPERATURE (F.) - N/A

FLAMMABLE LIMITS IN AIR % BY VOLUME: LEL - N/A UEL - N/A

EXTINGUISHER MEDIA - CO-2 OR WATER AS APPROPRIATE FOR COMBUSTIBLES IN AREA

FIRE AND EXPLOSION HAZARDS - FIRE TEMPERATURES ABOVE 700 C MAY CAUSE TOXIC FUMES; SELF CONTAINED BREATHING APPARATUS IS REQUIRED.

SECTION V - PHYSICAL HAZARDS (REACTIVITY DATA)

STABILITY - STABLE CONDITIONS TO AVOID - TEMPERATURES ABOVE 700 C
INCOMPATIBILITY - STRONG ACIDS WILL CAUSE DECOMPOSITION INTO TOXIC GAS
HAZARDOUS DECOMPOSITION PRODUCTS - N/A
HAZARDOUS POLYMERIZATION - WILL NOT OCCUR
CONDITIONS TO AVOID - N/A

SECTION VI - HEALTH HAZARDS

ACUTE AND/OR CHRONIC - RESPIRATORY IRRITATION. EXCESSIVE ABSORPTION CAN

ROUTES OF ENTRY / SIGNS AND SYMPTOMS OF EXPOSURE:

1. INHALATION - SHOULD BE AVOIDED BY WEARING AN APPROVED DUST MASK.
INHALATION OF ANY NUISANCE DUST MAY CAUSE
RESPIRATORY IRRITATION
2. EYES - SHOULD BE AVOIDED BY WEARING APPROVED SAFETY GLASSES
OR GOGGLES. EYE CONTACT WITH ANY MATERIAL MAY CAUSE
EYE IRRITATION
3. SKIN - POSSIBLE MILD IRRITATION
4. INGESTION - SHOULD NOT BE TAKEN INTERNALLY

COMPONENT(S) LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN:

N.T.P. - NO I.A.R.C. - NO OSHA - NO

EMERGENCY AND FIRST AID PROCEDURES:

1. INHALATION - REMOVE TO CLEAN, FRESH AIR / GIVE OXYGEN IF NEEDED
IF IRRITATION PERSISTS, CONSULT PHYSICIAN
2. EYES - FLUSH THOROUGHLY WITH WATER FOR AT LEAST 15 MINUTES
IF IRRITATION PERSISTS, CONSULT PHYSICIAN
3. SKIN - WASH WITH SOAP AND WATER
IF IRRITATION PERSISTS, CONSULT PHYSICIAN
4. INGESTION - IF CONSCIOUS, GIVE LARGE QUANTITIES OF WATER OR
MILK, CALL A PHYSICIAN IMMEDIATELY

E. SECTION VII - SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE - STORE IN SEALED CONTAINERS TO AVOID SPILLAGE AND CONTAMINATION. NORMAL WAREHOUSING

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED - VACUUM OR SWEEP UP AFTER DAMPENING TO REDUCE DUST, INTO SEALED CONTAINERS.

WASTE DISPOSAL METHODS - IN ACCORDANCE WITH FEDERAL, STATE, LOCAL AND EPA WASTE REGULATIONS.

OTHER PRECAUTIONS - CAUTION SHOULD BE TAKEN AS TO SAFETY AND EXPOSURE

SECTION VIII - SPECIAL PROTECTION INFORMATION/CONTROL MEASURES

RESPIRATORY PROTECTION - NIOSHA/MSHA APPROVED

VENTILATION - LOCAL EXHAUST RECOMMENDED

PROTECTIVE GLOVES - RECOMMENDED

EYE PROTECTION - RECOMMENDED

OTHER PROTECTIVE CLOTHING OR EQUIPMENT - EYE WASH STATION, COVERALLS/UNIFORMS

WORK/HYGIENIC PRACTICES - DO NOT EAT, DRINK OR SMOKE IN WORK AREA.
THOROUGHLY WASH WITH SOAP AND WATER AFTER HANDLING

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INFORMATION PRESENTED HEREIN HAS BEEN COMPILED FROM SOURCES CONSIDERED TO BE DEPENDABLE AND IS ACCURATE AND RELIABLE TO THE BEST OF OUR KNOWLEDGE AND BELIEF BUT IS NOT GUARANTEED TO BE SO. SINCE CONDITIONS OF USE ARE BEYOND OUR CONTROL, WE MAKE NO WARRANTIES, EXPRESSED OR IMPLIED, WITH RESPECT TO THE INFORMATION CONTAINED HEREIN.

VONCO

MATERIAL SAFETY DATA SHEET

SECTION I - IDENTIFICATION

PRODUCT NUMBER: MC-53331

DATE : 11/17/91

MANUFACTURER: Marco Color Labs
12410 Wilkie Avenue
Hawthorne, CA. 90250

TELEPHONE NO: (213) 756-8113

SECTION II - HAZARD RATING

HAZARD CLASSIFICATION: HEALTH - 1 FLAMMABILITY - REACTIVITY -

DRY COLOR MIXTURE COMPOSITION:

COMPONENT	CAS NUMBER	OSHA PEL	ACGIH TLV
ANTHRAQUINONE	PROPRIETARY LISTED SARA TITLE III SEC;313		
CARBON	1333-86-4 LISTED CA PROP 65	3.5MG/M3	3.5MG/M3
CALCIUM SOAP	1592-23-0	10MG/M3	10MG/M3

SECTION III - PHYSICAL PROPERTIES

APPEARANCE AND ODOR - ODORLESS POWDER

BOILING POINT - N/A

SPECIFIC GRAVITY (WATER=1) - 1.5 TO 5.0 VARIES WITH FORMULA

VAPOR PRESSURE - N/A

VAPOR DENSITY (AIR=1) - N/A

SOLUBILITY IN WATER - NEGLIGIBLE

REACTS IF EXPOSED TO: LIGHT - N/A AIR - N/A WATER - N/A

SECTION IV - FIRE OR EXPLOSION DATA

FLASH POINT (F.) - N/A

AUTO-IGNITION TEMPERATURE (F.) - N/A

FLAMMABLE LIMITS IN AIR % BY VOLUME: LEL - N/A UEL - N/A

EXTINGUISHER MEDIA - CO-2 OR WATER AS APPROPRIATE FOR COMBUSTIBLES IN AREA

FIRE AND EXPLOSION HAZARDS - FIRE TEMPERATURES ABOVE 700 C MAY CAUSE TOXIC FUMES; SELF CONTAINED BREATHING APPARATUS IS REQUIRED.

SECTION VII - SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE - STORE IN SEALED CONTAINERS TO AVOID SPILLAGE AND CONTAMINATION. NORMAL WAREHOUSING

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED - VACUUM OR SWEEP UP AFTER DAMPENING TO REDUCE DUST, INTO SEALED CONTAINERS.

WASTE DISPOSAL METHODS - IN ACCORDANCE WITH FEDERAL, STATE, LOCAL AND EPA WASTE REGULATIONS.

OTHER PRECAUTIONS - CAUTION SHOULD BE TAKEN AS TO SAFETY AND EXPOSURE

SECTION VIII - SPECIAL PROTECTION INFORMATION/CONTROL MEASURES

RESPIRATORY PROTECTION - NIOSHA/MSHA APPROVED

VENTILATION - LOCAL EXHAUST RECOMMENDED

PROTECTIVE GLOVES - RECOMMENDED

EYE PROTECTION - RECOMMENDED

OTHER PROTECTIVE CLOTHING OR EQUIPMENT - EYE WASH STATION, COVERALLS/UNIFORMS

WORK/HYGIENIC PRACTICES - DO NOT EAT, DRINK OR SMOKE IN WORK AREA. THOROUGHLY WASH WITH SOAP AND WATER AFTER HANDLING

.....

INFORMATION PRESENTED HEREIN HAS BEEN COMPILED FROM SOURCES CONSIDERED TO BE DEPENDABLE AND IS ACCURATE AND RELIABLE TO THE BEST OF OUR KNOWLEDGE AND BELIEF BUT IS NOT GUARANTEED TO BE SO. SINCE CONDITIONS OF USE ARE BEYOND OUR CONTROL, WE MAKE NO WARRANTIES, EXPRESSED OR IMPLIED, WITH RESPECT TO THE INFORMATION CONTAINED HEREIN.

VONCO

MATERIAL SAFETY DATA SHEET

SECTION I - IDENTIFICATION

PRODUCT NUMBER: MC-64342

DATE: 11/17/93

MANUFACTURER: Marco Color Labs
12410 Wilkie Avenue
Hawthorne, CA. 90250

TELEPHONE NO: (213) 756-8113

SECTION II - HAZARD RATING

HAZARD CLASSIFICATION: HEALTH - FLAMMABILITY - REACTIVITY -

DRY COLOR MIXTURE COMPOSITION:

COMPONENT	CAS NUMBER	OSHA PEL	ACGIH TLV
ANTHRAQUINONE	82-38-2		
ANTHRAQUINONE	15958-68-6 LISTED SARA TITLE III-SEC:311,312		
CALCIUM SOAP	1592-23-0	10MG/M3	10MG/M3

SECTION III - PHYSICAL PROPERTIES

APPEARANCE AND ODOR - ODORLESS POWDER

BOILING POINT - N/A

SPECIFIC GRAVITY (WATER=1) - 1.5 TO 5.0 VARIES WITH FORMULA

VAPOR PRESSURE - N/A

VAPOR DENSITY (AIR=1) - N/A

SOLUBILITY IN WATER - NEGLIGIBLE

REACTS IF EXPOSED TO: LIGHT - N/A AIR - N/A WATER - N/A

SECTION IV - FIRE OR EXPLOSION DATA

FLASH POINT (F.) - N/A

AUTO-IGNITION TEMPERATURE (F.) - N/A

FLAMMABLE LIMITS IN AIR % BY VOLUME: LEL - N/A UEL - N/A

EXTINGUISHER MEDIA - CO-2 OR WATER AS APPROPRIATE FOR COMBUSTIBLES IN AREA

FIRE AND EXPLOSION HAZARDS - FIRE TEMPERATURES ABOVE 700 C MAY CAUSE TOXIC FUMES; SELF CONTAINED BREATHING APPARATUS IS REQUIRED.

SECTION V - PHYSICAL HAZARDS (REACTIVITY DATA)

STABILITY - STABLE CONDITIONS TO AVOID - N/A

INCOMPATIBILITY - N/A

HAZARDOUS DECOMPOSITION PRODUCTS - N/A

HAZARDOUS POLYMERIZATION - WILL NOT OCCUR

CONDITIONS TO AVOID - N/A

SECTION VI - HEALTH HAZARDS

ACUTE AND/OR CHRONIC - RESPIRATORY IRRITATION. EXCESSIVE ABSORPTION CAN

ROUTES OF ENTRY / SIGNS AND SYMPTOMS OF EXPOSURE:

1. INHALATION - SHOULD BE AVOIDED BY WEARING AN APPROVED DUST MASK. INHALATION OF ANY NUISANCE DUST MAY CAUSE RESPIRATORY IRRITATION
2. EYES - SHOULD BE AVOIDED BY WEARING APPROVED SAFETY GLASSES OR GOGGLES. EYE CONTACT WITH ANY MATERIAL MAY CAUSE EYE IRRITATION
3. SKIN - POSSIBLE MILD IRRITATION
4. INGESTION - SHOULD NOT BE TAKEN INTERNALLY

COMPONENT(S) LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN:

N.T.P. - NO I.A.R.C. - NO OSHA - NO

EMERGENCY AND FIRST AID PROCEDURES:

1. INHALATION - REMOVE TO CLEAN, FRESH AIR / GIVE OXYGEN IF NEEDED IF IRRITATION PERSISTS, CONSULT PHYSICIAN
2. EYES - FLUSH THOROUGHLY WITH WATER FOR AT LEAST 15 MINUTES IF IRRITATION PERSISTS, CONSULT PHYSICIAN
3. SKIN - WASH WITH SOAP AND WATER IF IRRITATION PERSISTS, CONSULT PHYSICIAN
4. INGESTION - IF CONSCIOUS, GIVE LARGE QUANTITIES OF WATER OR MILK, CALL A PHYSICIAN IMMEDIATELY

SECTION VII - SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE - STORE IN SEALED CONTAINER TO AVOID SPILLAGE AND CONTAMINATION. NORMAL WAREHOUSING

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED - VACUUM OR SWEEP UP AFTER DAMPENING TO REDUCE DUST, INTO SEALED CONTAINERS.

WASTE DISPOSAL METHODS - IN ACCORDANCE WITH FEDERAL, STATE, LOCAL AND EPA WASTE REGULATIONS.

OTHER PRECAUTIONS - CAUTION SHOULD BE TAKEN AS TO SAFETY AND EXPOSURE

SECTION VIII - SPECIAL PROTECTION INFORMATION/CONTROL MEASURES

RESPIRATORY PROTECTION - NIOSHA/MSHA APPROVED

VENTILATION - LOCAL EXHAUST RECOMMENDED

PROTECTIVE GLOVES - RECOMMENDED

EYE PROTECTION - RECOMMENDED

OTHER PROTECTIVE CLOTHING OR EQUIPMENT - EYE WASH STATION, COVERAL 3

WORK/HYGIENIC PRACTICES - DO NOT EAT, DRINK OR SMOKE IN WORK AREA. THOROUGHLY WASH WITH SOAP AND WATER AFTER HANDLING

INFORMATION PRESENTED HEREIN HAS BEEN COMPILED FROM SOURCES CONSIDERED TO BE DEPENDABLE AND IS ACCURATE AND RELIABLE TO THE BEST OF OUR KNOWLEDGE AND BELIEF BUT IS NOT GUARANTEED TO BE SO. SINCE CONDITIONS OF USE ARE BEYOND OUR CONTROL, WE MAKE NO WARRANTIES, EXPRESSED OR IMPLIED, WITH RESPECT TO THE INFORMATION CONTAINED HEREIN.

VONCO

MATERIAL SAFETY DATA SHEET

PAGE # 1

SECTION I - IDENTIFICATION

PRODUCT NUMBER: MC-65892

DATE : 11/15/95

MANUFACTURER: Marco Color Labs
12410 Wilkie Avenue
Hawthorne, CA. 90250

TELEPHONE NO: (213) 756-8113

SECTION II - HAZARD RATING

HAZARD CLASSIFICATION: HEALTH - 1 FLAMMABILITY - REACTIVITY -

DRY COLOR MIXTURE COMPOSITION:

COMPONENT	CAS NUMBER	OSHA PEL	ACGIH TLV
TITANIUM DIOXIDE	13463-67-7	15.0MG/M3	10.0MG/M3
	21CFR 178.3297		
CADMIUM	58339-34-7	0.2MG/M3	0.2MG/M3
	LISTED CA PROP 65	-LISTED SARA TITLE III	SEC:313
INORGANIC OXIDE	1333-86-4	10MG/M3	5MG/M3
HYDROXYSTEARAMIDE	123-26-2		
	21CFR 178.3860		
ZINC SALT	557-05-1	10MG/M3	10MG/M3
	21CFR 175.300		

SECTION III - PHYSICAL PROPERTIES

APPEARANCE AND ODOR - ODORLESS POWDER

BOILING POINT - N/A

SPECIFIC GRAVITY (WATER=1) - 1.5 TO 5.0 VARIES WITH FORMULA

VAPOR PRESSURE - N/A

VAPOR DENSITY (AIR=1) - N/A

SOLUBILITY IN WATER - NEGLIGIBLE

REACTS IF EXPOSED TO: LIGHT - N/A AIR - N/A WATER - N/A

SECTION IV - FIRE OR EXPLOSION DATA

FLASH POINT (F.) - N/A

AUTO-IGNITION TEMPERATURE (F.) - N/A

FLAMMABLE LIMITS IN AIR % BY VOLUME: LEL - N/A UEL - N/A

EXTINGUISHER MEDIA - CO-2 OR WATER AS APPROPRIATE FOR COMBUSTIBLES IN AREA

FIRE AND EXPLOSION HAZARDS - FIRE TEMPERATURES ABOVE 700 C MAY CAUSE TOXIC FUMES; SELF CONTAINED BREATHING APPARATUS IS REQUIRED.

SECTION V - PHYSICAL HAZARDS (REACTIVITY DATA)

STABILITY - STABLE

CONDITIONS TO AVOID - TEMPERATURES ABOVE 700 C

INCOMPATIBILITY - STRONG ACIDS WILL CAUSE DECOMPOSITION INTO TOXIC GAS

HAZARDOUS DECOMPOSITION PRODUCTS - CAN YIELD FUMES OF CADMIUM OXIDE

HAZARDOUS POLYMERIZATION - WILL NOT OCCUR

CONDITIONS TO AVOID - N/A

SECTION VI - HEALTH HAZARDS

ACUTE AND/OR CHRONIC - RESPIRATORY IRRITATION. EXCESSIVE ABSORPTION CAN

ROUTES OF ENTRY / SIGNS AND SYMPTOMS OF EXPOSURE:

1. INHALATION - SHOULD BE AVOIDED BY WEARING AN APPROVED DUST MASK. INHALATION OF ANY NUISANCE DUST MAY CAUSE RESPIRATORY IRRITATION
2. EYES - SHOULD BE AVOIDED BY WEARING APPROVED SAFETY GLASSES OR GOGGLES. EYE CONTACT WITH ANY MATERIAL MAY CAUSE EYE IRRITATION
3. SKIN - POSSIBLE MILD IRRITATION
4. INGESTION - SHOULD NOT BE TAKEN INTERNALLY

COMPONENT(S) LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN:

N.T.P. - YES I.A.R.C. - YES OSHA - YES

EMERGENCY AND FIRST AID PROCEDURES:

1. INHALATION - REMOVE TO CLEAN, FRESH AIR / GIVE OXYGEN IF NEEDED
IF IRRITATION PERSISTS, CONSULT PHYSICIAN
2. EYES - FLUSH THOROUGHLY WITH WATER FOR AT LEAST 15 MINUTES
IF IRRITATION PERSISTS, CONSULT PHYSICIAN
3. SKIN - WASH WITH SOAP AND WATER
IF IRRITATION PERSISTS, CONSULT PHYSICIAN
4. INGESTION - IF CONSCIOUS, GIVE LARGE QUANTITIES OF WATER OR
MILK, CALL A PHYSICIAN IMMEDIATELY

SECTION VII - SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE - STORE IN SEALED CONTAINERS
TO AVOID SPILLAGE AND CONTAMINATION. NORMAL WAREHOUSING

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED - VACUUM OR SWEEP UP
AFTER DAMPENING TO REDUCE DUST, INTO SEALED CONTAINERS.

WASTE DISPOSAL METHODS - IN ACCORDANCE WITH FEDERAL, STATE, LOCAL AND EPA
WASTE REGULATIONS.

OTHER PRECAUTIONS - CAUTION SHOULD BE TAKEN AS TO SAFETY AND EXPOSURE

SECTION VIII - SPECIAL PROTECTION INFORMATION/CONTROL MEASURES

RESPIRATORY PROTECTION - NIOSHA/MSHA APPROVED

VENTILATION - LOCAL EXHAUST RECOMMENDED

PROTECTIVE GLOVES - RECOMMENDED

EYE PROTECTION - RECOMMENDED

OTHER PROTECTIVE CLOTHING OR EQUIPMENT - EYE WASH STATION, COVERALLS/UNIFORMS

WORK/HYGIENIC PRACTICES - DO NOT EAT, DRINK OR SMOKE IN WORK AREA.
THOROUGHLY WASH WITH SOAP AND WATER AFTER HANDLING

=====

INFORMATION PRESENTED HEREIN HAS BEEN COMPILED FROM SOURCES CONSIDERED TO
BE DEPENDABLE AND IS ACCURATE AND RELIABLE TO THE BEST OF OUR KNOWLEDGE
AND BELIEF BUT IS NOT GUARANTEED TO BE SO. SINCE CONDITIONS OF USE ARE
BEYOND OUR CONTROL, WE MAKE NO WARRANTIES, EXPRESSED OR IMPLIED, WITH
RESPECT TO THE INFORMATION CONTAINED HEREIN.

VONCO

MATERIAL SAFETY DATA SHEET

PAGE # 1

SECTION I - IDENTIFICATION

PRODUCT NUMBER: MC-65894

DATE : 11/15/95

MANUFACTURER: Marco Color Labs
12410 Wilkie Avenue
Hawthorne, CA. 90250

TELEPHONE NO: (213) 756-8113

SECTION II - HAZARD RATING

HAZARD CLASSIFICATION: HEALTH - 1 FLAMMABILITY - REACTIVITY -

DRY COLOR MIXTURE COMPOSITION:

COMPONENT	CAS NUMBER	OSHA PEL	ACGIH TLV
TITANIUM DIOXIDE	13463-67-7 21CFR 178.3297	15.0MG/M3	10.0MG/M3
CHROMATE	12656-85-8 LISTED CA PROP 65 -SARA	0.05MG/M3	0.05MG/M3
CHROMATE	13344-37 LISTED CA PROP 65 -LISTED SARA	0.05MG/M3	0.05MG/M3
INORGANIC OXIDE	1333-86-4	10MG/M3	5MG/M3
HYDROXYSTEARAMIDE	123-26-2 21CFR 178.3860		
ZINC SALT	557-05-1 21CFR 175.300	10MG/M3	10MG/M3

SECTION III - PHYSICAL PROPERTIES

APPEARANCE AND ODOR - ODORLESS POWDER

BOILING POINT - N/A

SPECIFIC GRAVITY (WATER=1) - 1.5 TO 5.0 VARIES WITH FORMULA

VAPOR PRESSURE - N/A VAPOR DENSITY (AIR=1) - N/A

SOLUBILITY IN WATER - NEGLIGIBLE

REACTS IF EXPOSED TO: LIGHT - N/A AIR - N/A WATER - N/A

SECTION IV - FIRE OR EXPLOSION DATA

FLASH POINT (F.) - N/A

AUTO-IGNITION TEMPERATURE (F.) - N/A

FLAMMABLE LIMITS IN AIR % BY VOLUME: LEL - N/A UEL - N/A

EXTINGUISHER MEDIA - CO-2 OR WATER AS APPROPRIATE FOR COMBUSTIBLES IN AREA

FIRE AND EXPLOSION HAZARDS - FIRE TEMPERATURES ABOVE 700 C MAY CAUSE TOXIC FUMES; SELF CONTAINED BREATHING APPARATUS IS REQUIRED.

SECTION V - PHYSICAL HAZARDS (REACTIVITY DATA)

STABILITY - STABLE

CONDITIONS TO AVOID - TEMPERATURES ABOVE 700 C

INCOMPATABILITY - STRONG ACIDS WILL CAUSE DECOMPOSITION INTO TOXIC GAS

HAZARDOUS DECOMPOSITION PRODUCTS - CAN YIELD FUMES OF CADMIUM OXIDE

HAZARDOUS POLYMERIZATION - WILL NOT OCCUR

CONDITIONS TO AVOID - N/A

SECTION VI - HEALTH HAZARDS

ACUTE AND/OR CHRONIC - RESPIRATORY IRRITATION. EXCESSIVE ABSORPTION CAN

ROUTES OF ENTRY / SIGNS AND SYMPTOMS OF EXPOSURE:

1. INHALATION - SHOULD BE AVOIDED BY WEARING AN APPROVED DUST MASK. INHALATION OF ANY NUISANCE DUST MAY CAUSE RESPIRATORY IRRITATION
2. EYES - SHOULD BE AVOIDED BY WEARING APPROVED SAFETY GLASSES OR GOGGLES. EYE CONTACT WITH ANY MATERIAL MAY CAUSE EYE IRRITATION
3. SKIN - POSSIBLE MILD IRRITATION
4. INGESTION - SHOULD NOT BE TAKEN INTERNALLY

COMPONENT(S) LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN:

N.T.P. - YES I.A.R.C. - YES OSHA - YES

EMERGENCY AND FIRST AID PROCEDURES:

1. INHALATION - REMOVE TO CLEAN, FRESH AIR / GIVE OXYGEN IF NEEDED
IF IRRITATION PERSISTS, CONSULT PHYSICIAN
2. EYES - FLUSH THOROUGHLY WITH WATER FOR AT LEAST 15 MINUTES
IF IRRITATION PERSISTS, CONSULT PHYSICIAN
3. SKIN - WASH WITH SOAP AND WATER
IF IRRITATION PERSISTS, CONSULT PHYSICIAN
4. INGESTION - IF CONSCIOUS, GIVE LARGE QUANTITIES OF WATER OR
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WASTE DISPOSAL METHODS - IN ACCORDANCE WITH FEDERAL, STATE, LOCAL AND EPA
WASTE REGULATIONS.

OTHER PRECAUTIONS - CAUTION SHOULD BE TAKEN AS TO SAFETY AND EXPOSURE

SECTION VIII - SPECIAL PROTECTION INFORMATION/CONTROL MEASURES

RESPIRATORY PROTECTION - NIOSHA/MSHA APPROVED

VENTILATION - LOCAL EXHAUST RECOMMENDED

PROTECTIVE GLOVES - RECOMMENDED

EYE PROTECTION - RECOMMENDED

OTHER PROTECTIVE CLOTHING OR EQUIPMENT - EYE WASH STATION, COVERALLS/UNIFORMS

WORK/HYGIENIC PRACTICES - DO NOT EAT, DRINK OR SMOKE IN WORK AREA.
THOROUGHLY WASH WITH SOAP AND WATER AFTER HANDLING

=====

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VONCO

MATERIAL SAFETY DATA SHEET

PAGE # 1

SECTION I - IDENTIFICATION

PRODUCT NUMBER: MC-72152

DATE: 11.17.90

MANUFACTURER: Marco Color Labs
12410 Wilkie Avenue
Hawthorne, CA. 90250

TELEPHONE NO: (213) 756-8113

SECTION II - HAZARD RATING

HAZARD CLASSIFICATION: HEALTH - FLAMMABILITY - REACTIVITY -

DRY COLOR MIXTURE COMPOSITION:

COMPONENT	CAS NUMBER	OSHA PEL	ACGIH TLV
PTHALOCYANINE	1328-53-6		
MONOMETHINE DYE	4702-90-3		
MONTAN WAX			

SECTION III - PHYSICAL PROPERTIES

APPEARANCE AND ODOR - ODORLESS POWDER

BOILING POINT - N/A

SPECIFIC GRAVITY (WATER=1) - 1.5 TO 5.0 VARIES WITH FORMULA

VAPOR PRESSURE - N/A VAPOR DENSITY (AIR=1) - N/A

SOLUBILITY IN WATER - NEGLIGIBLE

REACTS IF EXPOSED TO: LIGHT - N/A AIR - N/A WATER - N/A

SECTION IV - FIRE OR EXPLOSION DATA

FLASH POINT (F.) - N/A AUTO-IGNITION TEMPERATURE (F.) - N/A

FLAMMABLE LIMITS IN AIR % BY VOLUME: LEL - N/A UEL - N/A

EXTINGUISHER MEDIA - CO-2 OR WATER AS APPROPRIATE FOR COMBUSTIBLES IN AREA

FIRE AND EXPLOSION HAZARDS - FIRE TEMPERATURES ABOVE 700 C MAY CAUSE TOXIC FUMES; SELF CONTAINED BREATHING APPARATUS IS REQUIRED.

SECTION V - PHYSICAL HAZARDS (REACTIVITY DATA)

STABILITY - STABLE CONDITIONS TO AVOID - TEMPERATURES ABOVE 700 C
INCOMPATIBILITY - STRONG ACIDS WILL CAUSE DECOMPOSITION INTO TOXIC GAS
HAZARDOUS DECOMPOSITION PRODUCTS - N/A
HAZARDOUS POLYMERIZATION - WILL NOT OCCUR
CONDITIONS TO AVOID - N/A

SECTION VI - HEALTH HAZARDS

ACUTE AND/OR CHRONIC - RESPIRATORY IRRITATION. EXCESSIVE ABSORPTION CAN
ROUTES OF ENTRY / SIGNS AND SYMPTOMS OF EXPOSURE:

1. INHALATION - SHOULD BE AVOIDED BY WEARING AN APPROVED DUST MASK.
INHALATION OF ANY NUISANCE DUST MAY CAUSE
RESPIRATORY IRRITATION
2. EYES - SHOULD BE AVOIDED BY WEARING APPROVED SAFETY GLASSES
OR GOGGLES. EYE CONTACT WITH ANY MATERIAL MAY CAUSE
EYE IRRITATION
3. SKIN - POSSIBLE MILD IRRITATION
4. INGESTION - SHOULD NOT BE TAKEN INTERNALLY

COMPONENT(S) LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN:

N.T.P. - NO I.A.R.C. - NO OSHA - NO

EMERGENCY AND FIRST AID PROCEDURES:

1. INHALATION - REMOVE TO CLEAN, FRESH AIR / GIVE OXYGEN IF NEEDED
IF IRRITATION PERSISTS, CONSULT PHYSICIAN
2. EYES - FLUSH THOROUGHLY WITH WATER FOR AT LEAST 15 MINUTES
IF IRRITATION PERSISTS, CONSULT PHYSICIAN
3. SKIN - WASH WITH SOAP AND WATER
IF IRRITATION PERSISTS, CONSULT PHYSICIAN
4. INGESTION - IF CONSCIOUS, GIVE LARGE QUANTITIES OF WATER OR
MILK, CALL A PHYSICIAN IMMEDIATELY

SECTION VII - SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE - STORE IN SEALED CONTAINERS TO AVOID SPILLAGE AND CONTAMINATION. NORMAL WAREHOUSING

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED - VACUUM OR SWEEP UP AFTER DAMPENING TO REDUCE DUST, INTO SEALED CONTAINERS.

WASTE DISPOSAL METHODS - IN ACCORDANCE WITH FEDERAL, STATE, LOCAL AND EPA WASTE REGULATIONS.

OTHER PRECAUTIONS - CAUTION SHOULD BE TAKEN AS TO SAFETY AND EXPOSURE

SECTION VIII - SPECIAL PROTECTION INFORMATION/CONTROL MEASURES

RESPIRATORY PROTECTION - NIOSHA/MSHA APPROVED

VENTILATION - LOCAL EXHAUST RECOMMENDED

PROTECTIVE GLOVES - RECOMMENDED

EYE PROTECTION - RECOMMENDED

OTHER PROTECTIVE CLOTHING OR EQUIPMENT - EYE WASH STATION, COVERALLO/UNIFORMS

WORK/HYGIENIC PRACTICES - DO NOT EAT, DRINK OR SMOKE IN WORK AREA. THOROUGHLY WASH WITH SOAP AND WATER AFTER HANDLING

.....
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VONCO

MATERIAL SAFETY DATA SHEET

PAGE # 1

SECTION I - IDENTIFICATION

PRODUCT NUMBER: MC-72204

DATE : 3/22/94

MANUFACTURER: Marco Color Labs
12410 Wilkie Avenue
Hawthorne, CA. 90250

TELEPHONE NO: (213) 756-8113

SECTION II - HAZARD RATING

HAZARD CLASSIFICATION: HEALTH - FLAMMABILITY - REACTIVITY -

DRY COLOR MIXTURE COMPOSITION:

COMPONENT	CAS NUMBER	OSHA PEL	ACGIH TLV
TITANIUM DIOXIDE	13463-67-7	15.0MG/M3	10.0MG/M3
	21CFR 178.3297		
CROMOPHTAL			
	21CFR 178.3297		
PTHALOCYANINE			
ZINC SALT	557-05-1	10MG/M3	10MG/M3
	21CFR 175.300		

SECTION III - PHYSICAL PROPERTIES

APPEARANCE AND ODOR - ODORLESS POWDER

BOILING POINT - N/A

SPECIFIC GRAVITY (WATER=1) - 1.5 TO 5.0 VARIES WITH FORMULA

VAPOR PRESSURE - N/A VAPOR DENSITY (AIR=1) - N/A

SOLUBILITY IN WATER - NEGLIGIBLE

REACTS IF EXPOSED TO: LIGHT - N/A AIR - N/A WATER - N/A

SECTION IV - FIRE OR EXPLOSION DATA

FLASH POINT (F.) - N/A AUTO-IGNITION TEMPERATURE (F.) - N/A

FLAMMABLE LIMITS IN AIR % BY VOLUME: LEL - N/A UEL - N/A

EXTINGUISHER MEDIA - CO-2 OR WATER AS APPROPRIATE FOR COMBUSTIBLES IN AREA

FIRE AND EXPLOSION HAZARDS - FIRE TEMPERATURES ABOVE 700 C MAY CAUSE TOXIC FUMES; SELF CONTAINED BREATHING APPARATUS IS REQUIRED.

SECTION V - PHYSICAL HAZARDS (REACTIVITY DATA)

STABILITY - STABLE CONDITIONS TO AVOID - N/A

INCOMPATIBILITY - N/A

HAZARDOUS DECOMPOSITION PRODUCTS - CAN YIELD FUMES OF CADMIUM OXIDE

HAZARDOUS POLYMERIZATION - WILL NOT OCCUR

CONDITIONS TO AVOID - N/A

SECTION VI - HEALTH HAZARDS

ACUTE AND/OR CHRONIC - RESPIRATORY IRRITATION. EXCESSIVE ABSORPTION CAN

ROUTES OF ENTRY / SIGNS AND SYMPTOMS OF EXPOSURE:

1. INHALATION - SHOULD BE AVOIDED BY WEARING AN APPROVED DUST MASK. INHALATION OF ANY NUISANCE DUST MAY CAUSE RESPIRATORY IRRITATION
2. EYES - SHOULD BE AVOIDED BY WEARING APPROVED SAFETY GLASSES OR GOGGLES. EYE CONTACT WITH ANY MATERIAL MAY CAUSE EYE IRRITATION
3. SKIN - POSSIBLE MILD IRRITATION
4. INGESTION - SHOULD NOT BE TAKEN INTERNALLY

COMPONENT(S) LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN:

N.T.P. - NO I.A.R.C. - NO OSHA - NO

EMERGENCY AND FIRST AID PROCEDURES:

1. INHALATION - REMOVE TO CLEAN, FRESH AIR / GIVE OXYGEN IF NEEDED IF IRRITATION PERSISTS, CONSULT PHYSICIAN
2. EYES - FLUSH THOROUGHLY WITH WATER FOR AT LEAST 15 MINUTES IF IRRITATION PERSISTS, CONSULT PHYSICIAN
3. SKIN - WASH WITH SOAP AND WATER IF IRRITATION PERSISTS, CONSULT PHYSICIAN
4. INGESTION - IF CONSCIOUS, GIVE LARGE QUANTITIES OF WATER OR MILK, CALL A PHYSICIAN IMMEDIATELY

SECTION VII - SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES

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STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED -VACUUM OR SWEEP UP AFTER DAMPENING TO REDUCE DUST, INTO SEALED CONTAINERS.

WASTE DISPOSAL METHODS - IN ACCORDANCE WITH FEDERAL, STATE, LOCAL AND EPA WASTE REGULATIONS.

OTHER PRECAUTIONS - CAUTION SHOULD BE TAKEN AS TO SAFETY AND EXPOSURE

SECTION VIII - SPECIAL PROTECTION INFORMATION/CONTROL MEASURES

RESPIRATORY PROTECTION - NIOSHA/MSHA APPROVED

VENTILATION - LOCAL EXHAUST RECOMMENDED

PROTECTIVE GLOVES - RECOMMENDED

EYE PROTECTION - RECOMMENDED

OTHER PROTECTIVE CLOTHING OR EQUIPMENT - EYE WASH STATION, COVERALLS/UNIFORMS

WORK/HYGIENIC PRACTICES - DO NOT EAT, DRINK OR SMOKE IN WORK AREA.
THOROUGHLY WASH WITH SOAP AND WATER AFTER HANDLING

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MATERIAL SAFETY DATA SHEET

PAGE # 1

SECTION I - IDENTIFICATION

PRODUCT NUMBER: MC-91525

DATE: 11/17/97

MANUFACTURER: Marco Color Labs
12410 Wilkie Avenue
Hawthorne, CA. 90250

TELEPHONE NO: (213) 756-8113

SECTION II - HAZARD RATING

HAZARD CLASSIFICATION: HEALTH - FLAMMABILITY - REACTIVITY -

DRY COLOR MIXTURE COMPOSITION:

COMPONENT	CAS NUMBER	OSHA PEL	ACGIH TLV
MONOMETHINE DYE	4702-90-3		
SOLVENT ORANGE	61969-47-9		
CALCIUM SOAP	1592-23-0	10MG/M3	10MG/M3

SECTION III - PHYSICAL PROPERTIES

APPEARANCE AND ODOR - ODORLESS POWDER

BOILING POINT - N/A

SPECIFIC GRAVITY (WATER=1) - 1.5 TO 5.0 VARIES WITH FORMULA

VAPOR PRESSURE - N/A

VAPOR DENSITY (AIR=1) - N/A

SOLUBILITY IN WATER - NEGLIGIBLE

REACTS IF EXPOSED TO: LIGHT - N/A AIR - N/A WATER - N/A

SECTION IV - FIRE OR EXPLOSION DATA

FLASH POINT (F.) - N/A

AUTO-IGNITION TEMPERATURE (F.) - N/A

FLAMMABLE LIMITS IN AIR % BY VOLUME: LEL - N/A UEL - N/A

EXTINGUISHER MEDIA - CO-2 OR WATER AS APPROPRIATE FOR COMBUSTION OF LIQ APP-

FIRE AND EXPLOSION HAZARDS - FIRE TEMPERATURES ABOVE 700 C MAY CAUSE TOXIC FUMES; SELF CONTAINED BREATHING APPARATUS IS REQUIRED.

SECTION V - PHYSICAL HAZARDS (REACTIVITY DATA)

STABILITY - STABLE CONDITIONS TO AVOID - N/A
INCOMPATIBILITY - STRONG ACIDS WILL CAUSE DECOMPOSITION INTO TOXIC GAS
HAZARDOUS DECOMPOSITION PRODUCTS - N/A
HAZARDOUS POLYMERIZATION - WILL NOT OCCUR
CONDITIONS TO AVOID - N/A

SECTION VI - HEALTH HAZARDS

ACUTE AND/OR CHRONIC - RESPIRATORY IRRITATION. EXCESSIVE ABSORPTION CAN
ROUTES OF ENTRY / SIGNS AND SYMPTOMS OF EXPOSURE:

1. INHALATION - SHOULD BE AVOIDED BY WEARING AN APPROVED DUST MASK.
INHALATION OF ANY NUISANCE DUST MAY CAUSE
RESPIRATORY IRRITATION
2. EYES - SHOULD BE AVOIDED BY WEARING APPROVED SAFETY GLASSES
OR GOGGLES. EYE CONTACT WITH ANY MATERIAL MAY CAUSE
EYE IRRITATION
3. SKIN - POSSIBLE MILD IRRITATION
4. INGESTION - SHOULD NOT BE TAKEN INTERNALLY

COMPONENT(S) LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN:

N.T.P. - NO I.A.R.C. - NO OSHA - NO

EMERGENCY AND FIRST AID PROCEDURES:

1. INHALATION - REMOVE TO CLEAN, FRESH AIR / GIVE OXYGEN IF NEEDED
IF IRRITATION PERSISTS, CONSULT PHYSICIAN
2. EYES - FLUSH THOROUGHLY WITH WATER FOR AT LEAST 15 MINUTES
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WASTE DISPOSAL METHODS - IN ACCORDANCE WITH FEDERAL, STATE, LOCAL AND EPA WASTE REGULATIONS.

OTHER PRECAUTIONS - CAUTION SHOULD BE TAKEN AS TO SAFETY AND EXPOSURE

SECTION VIII - SPECIAL PROTECTION INFORMATION/CONTROL MEASURES

RESPIRATORY PROTECTION - NIOSHA/MSHA APPROVED

VENTILATION - LOCAL EXHAUST RECOMMENDED

PROTECTIVE GLOVES - RECOMMENDED

EYE PROTECTION - RECOMMENDED

OTHER PROTECTIVE CLOTHING OR EQUIPMENT - EYE WASH STATION, COVERALLS/UNIFORM

WORK/HYGIENIC PRACTICES - DO NOT EAT, DRINK OR SMOKE IN WORK AREA. THOROUGHLY WASH WITH SOAP AND WATER AFTER HANDLING

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AM-10

Vonco Boop

7509 thru 7518, 1714, 7582

MATERIAL SAFETY DATA SHEET

MTS Code
- 0
- 1
- 0

* [REDACTED] *

Issued: 05/13/86
Revised: 01/01/94

SECTION I

IDENTIFICATION

Manufacturer's Name:

FOR VONCO 02-0005ER

Emergency Telephone No.
[REDACTED] Days
[REDACTED] Nights

PRODUCT NAME: [REDACTED] U.V. ABSORBER PE MB
TRADE NAME AND SYNONYMS: Polyolefin compounds and concentrates
CHEMICAL FAMILY: ADDITIVE CONCENTRATE FORMULA: PROPRIETARY FORMULATION

SECTION II

HAZARDOUS INGREDIENTS

The following ingredients are listed as hazardous materials according to 19CFR170.1200 (Hazard Communication Standard-USA) and as controlled substances under WHMIS (Workplace Hazardous Materials Information System-Canada)

INGREDIENTS: NOT APPLICABLE
VEHICLE: NOT APPLICABLE
ADDITIVES: NOT APPLICABLE

More detailed disclosure will be provided to appropriate medical or industrial hygiene personnel as privileged information upon request in case of need for specific treatment.
For details regarding CAS content, see Sect. X of this document.

SECTION III

PHYSICAL DATA

SOLUBILITY IN WATER: NONE SPECIFIC GRAVITY: 0.94
APPEARANCE AND ODOR: TRANSLUCENT PELLETS WITH NO ODOR.

SECTION IV

FIRE AND EXPLOSION HAZARD DATA

FLASH POINT/AUTO-IGNITION TEMPERATURE: > 600 DEGREES F.
FLAMMABLE LIMITS: NOT APPLICABLE
EXTINGUISHING MEDIA: WATER SPRAY, WATER FOG, FOAM, CO2, DRY CHEMICALS.
SPECIAL FIRE FIGHTING PROCEDURES: NONE
UNUSUAL FIRE AND EXPLOSION HAZARDS: NONE.

41-A

PRODUCT NAME: [REDACTED] MATERIAL SAFETY DATA SHEET
U.V. ABSORBER PE MB

=====
SECTION V HEALTH HAZARD DATA
=====

THRESHOLD LIMIT VALUES: NOT APPLICABLE
EFFECTS OF OVEREXPOSURE: NOT APPLICABLE
EMERGENCY FIRST AID PROCEDURES: NOT APPLICABLE

=====
SECTION VI REACTIVITY DATA
=====

STABILITY: STABLE UNSTABLE
CONDITIONS TO AVOID: NONE.
INCOMPATIBILITY: NONE.
HAZARDOUS DECOMPOSITION PRODUCTS: NONE.
HAZARDOUS POLYMERIZATION: MAY OCCUR WILL NOT OCCUR
CONDITIONS TO AVOID: NONE.

=====
SECTION VII SPILL OR LEAK PROCEDURES
=====

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
STOP SOURCE OF SPILL.
IF MATERIAL ENTERS A SEWER OR WATERWAY, NOTIFY
RESPONSIBLE AUTHORITIES OF NON-TOXIC PLASTIC PELLETS.

WASTE DISPOSAL METHOD:
SWEEP UP SPILLED MATERIAL AND PLACE IN SUITABLE
CONTAINER FOR RECYCLE OR DISPOSAL. CONSULT AN
EXPERT ON DISPOSAL OF RECOVERED MATERIAL AND ENSURE
CONFORMITY TO LOCAL DISPOSAL REGULATIONS.

41-B

PRODUCT NAME: [REDACTED]

MATERIAL SAFETY DATA SHEET
U.V. ABSORBER PE ME

SECTION VIII SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:
NOT NEEDED UNLESS DUST, SMOKE OR FUMES ARE GENERATED IN
PROCESSING OR HANDLING. THE PELLET FORM OF THIS PRODUCT AND
LOW SOLUBILITY OF THE POLYOLEFIN CARRIER PRECLUDE SIGNIFICANT
INHALATION EXPOSURE TO SOLID INGREDIENTS DURING ORDINARY HANDLING.

VENTILATION:
LOCAL EXHAUST: NOT NEEDED IN OPEN AREAS.
SPECIAL: NOT APPLICABLE
MECHANICAL: IF DUSTING CONDITIONS EXIST,
PROVIDE VENTILATION EQUAL TO OUTDOORS.

PROTECTIVE GLOVES: NOT NEEDED.

EYE PROTECTION: NOT NEEDED.

OTHER PROTECTIVE EQUIPMENT: NOT NEEDED.

SECTION IX SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:
DO NOT STORE NEAR HEAT, FLAME, NOR STRONG OXIDANTS.

OTHER PRECAUTIONS: NOT APPLICABLE

41-C

HCL# 7512
7515
7517

FLY

MATERIAL SAFETY DATA SHEET

HMIS Code
H - 0
E - 1
R - 0

*

Issued: 05/15/86
Revised: 02/04/94

SECTION I IDENTIFICATION

Manufacturer's Name:

FOR
VONCO 02-0000 SER

Emergency Telephone No.

PRODUCT NAME: BROWN PE MB
TRADE NAME AND SYNONYMS: Polyolefin compounds and concentrates
CHEMICAL FAMILY: COLOR CONCENTRATE FORMULA: PROPRIETARY FORMULATION

SECTION II HAZARDOUS INGREDIENTS

The following ingredients are listed as hazardous materials according to 29CFR1910.1200 (Hazard Communication Standard-USA) and as controlled substances under WHMIS (Workplace Hazardous Materials Information System-Canada)

PIGMENTS: NOT APPLICABLE
VEHICLE: NOT APPLICABLE
ADDITIVES: NOT APPLICABLE

A more detailed disclosure will be provided to appropriate medical or industrial hygiene personnel as privileged information upon request in case of need for specific treatment.
For details regarding CAS content, see Sect. X of this document.

SECTION III PHYSICAL DATA

SOLUBILITY IN WATER: NONE SPECIFIC GRAVITY: 1.23
APPEARANCE AND ODOR: BROWN OPAQUE PELLETS WITH NO ODOR.

SECTION IV FIRE AND EXPLOSION HAZARD DATA

FLASH POINT/AUTO-IGNITION TEMPERATURE: > 600 DEGREES F.
FLAMMABLE LIMITS: NOT APPLICABLE
EXTINGUISHING MEDIA: WATER SPRAY, WATER FOG, FOAM, CO2, DRY CHEMICALS.
SPECIAL FIRE FIGHTING PROCEDURES: NONE
UNUSUAL FIRE AND EXPLOSION HAZARDS: NONE.

40-A

████████████████████
PRODUCT NAME: ██████████

MATERIAL SAFETY DATA SHEET
BROWN PE MB

=====
SECTION V HEALTH HAZARD DATA
=====

THRESHOLD LIMIT VALUE: NOT APPLICABLE
EFFECTS OF OVEREXPOSURE: NOT APPLICABLE
EMERGENCY FIRST AID PROCEDURES: NOT APPLICABLE

=====
SECTION VI REACTIVITY DATA
=====

STABILITY: [X] STABLE [] UNSTABLE
CONDITIONS TO AVOID: NONE.
INCOMPATIBILITY: NONE.
HAZARDOUS DECOMPOSITION PRODUCTS: NONE.
HAZARDOUS POLYMERIZATION: [] MAY OCCUR [X] WILL NOT OCCUR
CONDITIONS TO AVOID: NONE.

=====
SECTION VII SPILL OR LEAK PROCEDURES
=====

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
STOP SOURCE OF SPILL.
IF MATERIAL ENTERS A SEWER OR WATERWAY, NOTIFY
RESPONSIBLE AUTHORITIES OF NON-TOXIC PLASTIC PELLETS.
WASTE DISPOSAL METHOD:
SWEEP UP SPILLED MATERIAL AND PLACE IN SUITABLE
CONTAINER FOR RECYCLE OR DISPOSAL. CONSULT AN
EXPERT ON DISPOSAL OF RECOVERED MATERIAL AND ENSURE
CONFORMITY TO LOCAL DISPOSAL REGULATIONS.

40-B

PRODUCT NAME: [REDACTED] MATERIAL SAFETY DATA SHEET
BROWN PE MB

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SECTION VIII SPECIAL PROTECTION INFORMATION

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RESPIRATORY PROTECTION:
NOT NEEDED UNLESS DUST, SMOKE OR FUMES ARE GENERATED IN
PROCESSING OR HANDLING. THE PELLET FORM OF THIS PRODUCT AND
LOW SOLUBILITY OF THE POLYOLEFIN CARRIER PRECLUDE SIGNIFICANT
INHALATION EXPOSURE TO SOLID INGREDIENTS DURING ORDINARY HANDLING.

VENTILATION:
LOCAL EXHAUST: NOT NEEDED IN OPEN AREAS.
SPECIAL: NOT APPLICABLE
MECHANICAL: IF DUSTING CONDITIONS EXIST,
PROVIDE VENTILATION EQUAL TO OUTDOORS.

PROTECTIVE GLOVES: NOT NEEDED.

EYE PROTECTION: NOT NEEDED.

OTHER PROTECTIVE EQUIPMENT: NOT NEEDED.

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SECTION IX SPECIAL PRECAUTIONS

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PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:
DO NOT STORE NEAR HEAT, FLAME, NOR STRONG OXIDANTS.

OTHER PRECAUTIONS: NOT APPLICABLE

40-c

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SECTION X

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TOXIC SUBSTANCES CONTROL ACT (TSCA)

This Act requires that ALL chemicals imported, produced or used in U.S. manufacture be registered in the Chemical Substance Inventory. This product contains the following chemicals therein registered:

CAS#	Chemical Name
1309-37-1	IRON OXIDE YELLOW IRON OXIDE RED IRON OXIDE
1333-86-4	C.I. PBK7 (77226)
1338-41-6	SCRBITAN, MONOCTADECANOATE
9002-88-4	POLYETHYLENE HOMOPOLYMER

SUPER FUND AMENDMENT REAUTHORIZATION ACT (SARA TITLE III, SECTION 313)
SUPPLIER NOTIFICATION

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

NONE

This information must be included in all MSDSs that are copied and distributed for this material.

OZONE DEPLETING SUBSTANCES

This product is not formulated with, nor does the process utilize any known Class I or Class II Ozone Depleting Substances regulated by the EPA Clean Air Act (40CFR Part 82)

HAZARD DATA CONTAINED HEREIN WAS OBTAINED FROM RAW MATERIAL SUPPLIERS

PREPARED BY: DENISE R. HOLL, MANAGER-ENVIROMENTAL [REDACTED]

40-D

MATERIAL SAFETY DATA SHEET

FOR PRINTING INK AND RELATED MATERIALS

DATE OF PREP. 04/10/92 PREPARED BY: Regulatory Dept.

VONCO

HAZARD RATINGS:
HEALTH 2 MODERATE
FLAMMABILITY 3 SERIOUS
REACTIVITY 1 SLIGHT

SECTION I

MANUFACTURER'S NAME: 08-0016

Sun Chemical Corporation
631 Central Avenue, Carlstadt, N J 07072
EMER TEL NO: 201-933-4500 Regulatory Dept.

TRADE NAME: SUNSHEEN OPAQUE WARM RED

PRODUCT CLASS: SOLVENT INK OR LACQUER

MANUFACTURER'S CODE IDENTIFICATION RL87-4892-B

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENT	AMT	CAS NO	ACGIH/TLV/STEL	OSHA/PEL
ISOPROPYL ALCOHOL	2.7	67-63-0	400 / 500	400
N-PROPYL ALCOHOL	3.4	71-23-8	200/SKIN / 250/SKIN	200
ETHYL ALCOHOL	28.0	64-17-5	1000 / NONE EST	1000
N-PROPYL ACETATE	7.4	109-60-4	200 / 250	200
HEPTANE	12.1	142-82-5	400 / 500	400
BARIUM COMPOUND	9.3	7585-41-3	N/A / N/A	N/A

* denotes items listed in SARA AMT = percent by weight of ingredient in total formula

SECTION III - PHYSICAL DATA

BOILING RANGE °F: 173 - 215 PERCENT VOLATILE WT%: 53.9
LIQUID DENSITY VS WATER: HEAVIER EVAPORATION RATE VS. BUTYL ACETATE: FASTER
VAPOR DENSITY VS. AIR: HEAVIER APPEARANCE: RED LIQUID

SECTION IV - FIRE AND EXPLOSION DATA

LOWEST FLASH POINT °F: 25 LOWER EXPLOSION LIMIT - VOL%: 1.1
OSHA: I B DOT: FLAMMABLE

EXTINGUISHING MEDIA: FOAM CO2 DRY CHEMICAL

UNUSUAL FIRE AND EXPLOSION HAZARDS: Vapors may ignite explosively. Vapors may spread long distances. Exposure of closed containers to excess heat during fire may cause disruptive pressure.

SPECIAL FIREFIGHTING PROCEDURES: Use water to keep containers cool.

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SECTION V - HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE: Eye contact will cause irritation. Skin contact will cause defatting which can lead to dermatitis. Inhalation of vapors can cause headaches, nausea and irritation of nose and throat. Chronic exposure above the TLV can cause injury to the central nervous system and can cause other systemic effects.
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Skin disease, respiratory disorders.

TARGET ORGANS: EYES, SKIN, RESPIRATORY SYSTEM, CENTRAL NERVOUS SYSTEM, GI TRACT, PERIPHERAL NERVOUS SYS.

PRIMARY ROUTES OF ENTRY: DERMAL INHALATION

EMERGENCY AND FIRST AID PROCEDURES:
EYE CONTACT - Flush with water for 15 minutes - if irritation persists, get medical attention.
SKIN CONTACT - Wash well with soap and water - use suitable handcream.
INHALATION - Remove individual to fresh air. **INGESTION** - Call physician immediately.

SECTION VI - REACTIVITY DATA

PRODUCT STABILITY: STABLE

CONDITIONS TO AVOID: Avoid contact with strong acids or oxidizers.

SECTION VII - SPILL OR LEAK PROCEDURES

PROCEDURE WHEN MATERIAL SPILLED OR RELEASED:
Remove by using suitable inert absorbing materials.
Eliminate all sources of vapor ignition. Ventilate area.

WASTE DISPOSAL METHOD: In accordance with applicable local, state and federal regulations.

SECTION VIII - SPECIAL PROTECTION INFORMATION

VENTILATION: Use sufficient local and general ventilation to maintain vapor concentrations below stated TLVs and LEL.

PROTECTIVE ITEMS: Impervious gloves and goggles or face shield should be worn during handling procedures where splashing is possible.

RESPIRATORY PROTECTION: None required under normal operating conditions.

OTHER PROTECTIVE EQUIPMENT: Protective clothing to prevent body contact.

SECTION IX - SPECIAL HANDLING

HANDLING AND STORAGE: Keep containers closed when not in use.
Keep away from excessive heat. Avoid freezing.

OTHER PRECAUTIONS: NONE KNOWN

COMPLETE VOC (VOLATILE ORGANIC COMPOUND) BREAKDOWN

SUN CHEMICAL CORP CODE ID#: RL87-4892-B [% BY WEIGHT OF TOTAL FORMULA]

SOLIDS	46.1
ISOPROPYL ALCOHOL	2.7
N-PROPYL ALCOHOL	3.4
ETHYL ALCOHOL	28.0
N-PROPYL ACETATE	7.4
HEPTANE	12.1
TOLUENE	0.2
TOTAL	100.0

VOC DENSITY IN LB/GAL	6.52
SOLIDS DENSITY IN LB/GAL	13.11
VOLATILES DENSITY IN LB/GAL	6.52

VOC'S AS PERCENTAGE OF INK

WEIGHT %	53.9
VOLUME %	70.2

VOC'S AS PERCENTAGE OF LIQUID

WEIGHT %	100.0
VOLUME %	100.0

INFORMATION FOR WEST COAST VOC RULES

1. LBS VOC'S PER GALLON INK LESS WATER LESS EXEMPT SOLVENT: 4.6
GMS VOC'S PER LITER INK LESS WATER LESS EXEMPT SOLVENT: 548.5
2. LBS VOC'S PER GALLON INK: 4.6
GMS VOC'S PER LITER INK: 548.5
3. DENSITY OF INK IN LBS PER GALLON: 8.48
4. % WATER IN INK BY WEIGHT: 0.0
5. % EXEMPT SOLVENT IN INK BY WEIGHT: 0.0

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MATERIAL SAFETY DATA SHEET

FOR PRINTING INK AND RELATED MATERIALS

08-0008
8-A

VONCO

HAZARD RATINGS:
HEALTH 2 MODERATE
FLAMMABILITY 3 SERIOUS
REACTIVITY 0 MINIMAL

DATE OF PREP. 08-12-94

PREPARED BY: Regulatory Dept.

SECTION I

UP DATE 8-16-94

MANUFACTURER'S NAME:

Sun Chemical Corporation
631 Central Avenue, Carlstadt, N J 07072
EMER TEL NO: 201-933-4500 Regulatory Dept.

TRADE NAME: LITHO RUBINE RED

PRODUCT CLASS: SOLVENT INK OR LACQUER

PRODUCT IDENTIFICATION CODE S83-4871-B

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENT	AMT (Wt. %)	CAS NO	ACGIH/TLV/STEL	OSHA/PEL
ISOPROPYL ALCOHOL	7.2	67-63-0	400 / 500	400
N-PROPYL ALCOHOL	3.8	71-23-8	200/SKIN / 250/SKIN	200
ETHYL ALCOHOL	28.9	64-17-5	1000 / NONE EST	1000
N-PROPYL ACETATE	5.2	109-60-4	200 / 250	200
HEPTANE	20.7	142-82-5	400 / 500	400
DIBUTYL PHTHALATE	* ** 1.0	84-74-2	5mg/m ³ / NONE EST	5mg/m ³

* denotes items listed in SARA ** denotes items listed under CAA as HAPS

SECTION III - PHYSICAL DATA

BOILING RANGE °F: 173 - 215 PERCENT VOLATILE WT%: 65.6
 LIQUID DENSITY VS WATER: LIGHTER EVAPORATION RATE VS. BUTYL ACETATE: FASTER
 VAPOR DENSITY VS. AIR: HEAVIER APPEARANCE: RED LIQUID
 DENSITY (LBS/GAL): 7.70

SECTION IV - FIRE AND EXPLOSION DATA

LOWEST FLASH POINT °F: 25 LOWER EXPLOSION LIMIT - VOL%: 1.1
 OSHA: IB - FLAMMABLE DOT: FLAMMABLE LIQUID

EXTINGUISHING MEDIA: FOAM CO2 DRY CHEMICAL

UNUSUAL FIRE AND EXPLOSION HAZARDS: Vapors may ignite explosively. Vapors may spread long distances. Exposure of closed containers to excess heat during fire may cause disruptive pressure.

SPECIAL FIREFIGHTING PROCEDURES: Use water to keep containers cool. The use of SCBA and protective clothing is recommended for fire fighters.

THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

SECTION V - HEALTH HAZARD DATA

08-0008

EFFECTS OF OVEREXPOSURE: Eye contact will cause irritation. Skin contact will cause defatting which can lead to dermatitis. Inhalation of vapors can cause headaches, nausea and irritation of nose and throat. Chronic exposure above the exposure limit can cause injury to the central nervous system and can cause other systemic effects.
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Skin, respiratory disorders.

TARGET ORGANS: EYES, SKIN, RESPIRATORY SYSTEM, CENTRAL NERVOUS SYSTEM, GI TRACT, PERIPHERAL NERVOUS SYS.

PRIMARY ROUTES OF ENTRY: DERMAL INHALATION

EMERGENCY AND FIRST AID PROCEDURES:

EYE CONTACT - Flush with water for 15 minutes - if irritation persists, get medical attention.
SKIN CONTACT - Wash well with soap and water - use suitable handcream.
INHALATION - Remove individual to fresh air. INGESTION - Call physician immediately.

SECTION VI - REACTIVITY DATA

PRODUCT STABILITY: STABLE

CONDITIONS TO AVOID: Avoid contact with strong acids or oxidizers.

SECTION VII - SPILL OR LEAK PROCEDURES

PROCEDURE WHEN MATERIAL SPILLED OR RELEASED:
Remove by using suitable inert absorbing materials.
Eliminate all sources of vapor ignition. Ventilate area.

WASTE DISPOSAL METHOD: In accordance with applicable local, state and federal regulations.

SECTION VIII - SPECIAL PROTECTION INFORMATION

VENTILATION: Use sufficient local and general ventilation to maintain vapor concentrations below stated exposure limits.

PROTECTIVE ITEMS: Impervious gloves and safety glasses or goggles should be worn during handling procedures where splashing is possible.

RESPIRATORY PROTECTION: If exposure limits are exceeded a supplied air respirator should be worn.

OTHER PROTECTIVE EQUIPMENT: Protective clothing to prevent body contact.

SECTION IX - SPECIAL HANDLING

HANDLING AND STORAGE: Keep containers closed when not in use.
Keep away from excessive heat. Avoid freezing.

OTHER PRECAUTIONS: NONE KNOWN

COMPLETE VOC (VOLATILE ORGANIC COMPOUND) BREAKDOWN

08-0008

SUN CHEMICAL CORP CODE ID#:	S83-4871-B	[% BY WEIGHT OF TOTAL FORMULA]
SOLIDS		34.4
ISOPROPYL ALCOHOL		7.2
N-PROPYL ALCOHOL		3.8
ETHYL ALCOHOL		28.0
N-PROPYL ACETATE		5.2
HEPTANE		20.7
TOLUENE		0.7
TOTAL		100.0

VOC DENSITY IN LB/GAL	6.40
SOLIDS DENSITY IN LB/GAL	12.59
VOLATILES DENSITY IN LB/GAL	6.40

VOC'S AS PERCENTAGE OF INK		VOC'S AS PERCENTAGE OF LIQUID	
WEIGHT %	65.6	WEIGHT %	100.0
VOLUME %	79.0	VOLUME %	100.0

INFORMATION FOR WEST COAST VOC RULES

1. LBS VOC'S PER GALLON INK LESS WATER LESS EXEMPT SOLVENT: 5.1
GMS VOC'S PER LITER INK LESS WATER LESS EXEMPT SOLVENT: 606.1
2. LBS VOC'S PER GALLON INK: 5.1
GMS VOC'S PER LITER INK: 606.1
3. DENSITY OF INK IN LBS PER GALLON: 7.70
4. % WATER IN INK BY WEIGHT: 0.0
5. % EXEMPT SOLVENT IN INK BY WEIGHT: 0.0

VOLUME % WATER	0.0
VOLUME % SOLIDS	21.0
LBS VOC'S PER GALLON SOLIDS	24.0