



promotion associates, incorporated

333 HAMILTON BLVD., P.O. BOX 676, SOUTH PLAINFIELD, NJ 07080-0676
(908) 561-7710 • FAX (908) 561-7970

SDMS Document



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OCTOBER 13, 1998

EMERGENCY AND REMEDIAL RESPONSE DIVISION
U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION II
290 BROADWAY, 19TH FLOOR
NEW YORK, NEW YORK 10007

ATTENTION: PETER MANNINO

RE: REQUEST FOR INFORMATION ON CORNELL-DUBILIER ELECTRONICS, INC.
SITE IN MIDDLESEX COUNTY, NEW JERSEY

QUESTION 1.

- A. PROMOTION ASSOCIATES, INCORPORATED.
- B. SEYMOUR BROMBERG - 333 HAMILTON BLVD, SOUTH PLAINFIELD, NJ.
- C. CORPORATION - NEW JERSEY - APPROX TWENTY YEARS
- D. CANNOT LOCATE AT THIS TIME.
- E. PROMOTIONAL LOOSELEAF COMPANY - SELLS LOOSELEAF PRODUCTS.

QUESTION 2.

CURRENTLY IN OPERATION ON SITE.

QUESTION 3.

NO

QUESTION 4.

CURRENTLY RENT - BUILDING 2 ON SITE USED TO MANUFACTURE LOOSELEAF
BINDERS, WAREHOUSE AND OFFICE.

QUESTION 5.

MANUFACTURES, WAREHOUSE AND SALES OF VINYL BINDERS.

SEYMOUR BROMBERG - PRESIDENT
GEORGE DAHL - PRODUCTION MANAGER

QUESTION 6.

SEE ATTACHED.

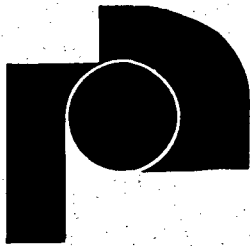
QUESTION 7.

NO

ADVERTISING SPECIALTIES • SALES AIDS • PREMIUMS • LOOSE LEAF PRODUCTS

OCT 20 1998

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RE: REQUEST FOR INFORMATION ON CORNELL-DUBLIER ELECTRONICS, INC. SITE

QUESTION 8.

STORAGE IN CONTAINERS SUPPLIED BY SUPPLIER PRODUCTS ARE RE-USED UNTIL FINISHED.

VINYL SCRAP IS SOLD TO STERNS PLASTIC, BROOKLYN, NEW YORK.

QUESTION 9.

PURCHASE ORDERS FOR PURCHASE OF MATERIALS ARE ISSUED ALMOST DAILY EST ANNUAL USEAGE IS LISTED IN ANSWER TO QUESTION 6.

DOCUMENTS ARE STORED IN COMPANY FILES - NO HAZARDOUS WASTE GENERATED EXCEPT FOR VINYL TRIM SOLD TO STERNS PLASTIC.

QUESTION 10.

NO LEAKS OR SPILLS.

QUESTION 11.

STERN PLASTIC, LARRY, BROOKLYN, NEW YORK - TELEPHONE # 718-638-6070.
OUR PRODUCTION MANAGER - GEORGE DAHL, 333 HAMILTON BLVD, SOUTH PLAINFIELD, NJ 07080.

QUESTION 12.

NONE

QUESTION 13.

NONE

QUESTION 14.

NO

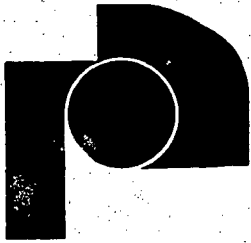
QUESTION 15.

NO

QUESTION 16.

UNKNOWN

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QUESTION 17.

NONE

QUESTION 18.

SEYMOUR BROMBERG, PRESIDENT - 333 HAMILTON BLVD, SOUTH PLAINFIELD,
NEW JERSEY 07080 - 908-561-7710

QUESTION 19.

GEORGE DAHL - QUESTIONS 3,4,5,6,7,8,9,10,12,16,17,
SEYMOUR BROMBERG ALL OTHER

701721

CERTIFICATION OF ANSWERS TO REQUEST FOR INFORMATION

State of NEW JERSEY

County of MIDDLESEX

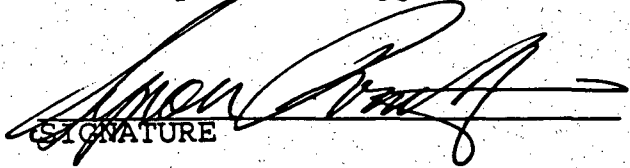
I certify under penalty of law that I have personally examined and am familiar with the Information submitted in this document (response to EPA Request for Information) and all documents submitted herewith, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete, and that all documents submitted herewith are complete and authentic unless otherwise indicated. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

SEYMOUR BROMBERG

NAME (print or type)

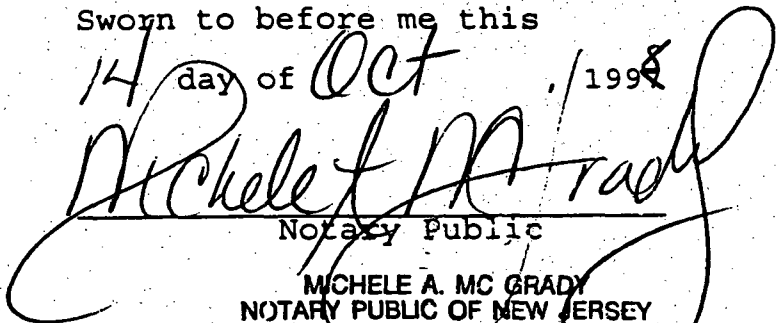
PRESIDENT

TITLE (print or type)


SIGNATURE

Sworn to before me this

14 day of Oct, 1998


Notary Public

MICHELE A. MC GRADY
NOTARY PUBLIC OF NEW JERSEY
MY COMMISSION EXPIRES
MAY 1, 2000

NAME

LBS

100,000 LBS YR

CHEMICALS USED IN VINYL BINDERS
SUPPLIED BY O'SULLIVAN CORP.

BARIUM SALTS	4200
ZINC SALTS	1400
COBALT METALS	600 PPM
DI(2-ETHYLHEXYL) PHTHALATE	38,000

5000 LBS YR

CHEMICALS USED IN POLY BINDERS
SUPPLIED BY CRAWFORD INDUSTRIES

TITANIUM DIOXIDE	15mg/m ³	10mg/m ³
------------------	---------------------	---------------------

25 LBS YR

CHEMICALS USED IN FILM PROCESSING
SUPPLIED BY RECOGNITION SYSTEMS, INC.

SODIUM SULFITE	1-3
SODIUM THIOSULFATE	1
2-METHYLAMINOTHAROL	1
GLYCEROL	<1
HYDROQUINONE	<1

1 LB YR

CHEMICALS USED IN MAINT. DEPT
SUPPLIED AMES METAL PRODUCTS CO.

LEAD	1
TIN	1

701723

NAME

LBS

CHEMICALS USED IN SCREEN PRINTING
SUPPLIED BY MAJESTECH CORP

90 LBS/YR

SODIUM HYDROXIDE
ALIPHATIC ETHER ALCOHOL

< 18
UNKNOWN

155 LBS YR
TOTAL

CHEMICALS USED IN SCREEN PRINTING
SUPPLIED BY NAZDAR CO.

ISOPHORONE

31

DIACETONE ALCOHOL

4

AROMATIC HYDROCARBON

25

HYDROGEN PEROXIDE

< 1

NAPHTHALENE

< 2

ESTER SOLVENT EEP

11

COPPER COMPOUNDS

10

4-HYDROXY-4-METHYL-2-PENTANONE

5

ALUMINUM COMPOUNDS

4

CARBON BLACK

2

ZINC

< 2

AROMATIC POLYISOCYANATE

< 1

PROPYLENE GLY METHYL ETHER ACET

< 1

STEARIC ACID

< 1

CHEMICALS USED IN SCREEN PRINTING
SUPPLIED BY SOLAR COLOR + CHEMICAL CO.

1360 LBS
TOTAL
WASH

METHYL ISOBUTYL KETONE
METHYL ETHYL KETONE
TOLUENE
ACETONE

UNKNOWN
MIXTURE
1360 LBS TOTAL

INK
70 LBS TOTAL

CYCLOHEXANONE
AROMATIC HYDROCARBON
LEAD CHROMATE

UNKNOWN
MIXTURE
70 LBS TOTAL

701724

NAME

LBS

CHEMICALS USED IN SCREEN PRINTING
SUPPLIED BY NOR-COTE INTERNATIONAL

220LBS TOTAL

MAGNESIUM SILICATE HYDRATE	2
METHYLDIETHANOLAMINE	3
SILICONE FLUID	1
ACRYLATED OLIGOMERS	104
N-VINYL-2-PYRROLIDONE	25
ACRYLATED MONOMERS	38
LEAD CHROMATE	<1
BARIUM COMPOUND	<1
ZINC COMPOUND	<1

Material Safety Data Sheet

Complies with Federal OSHA Hazard Communication Standard 29CFR 1910.1200, Canadian WHMIS Regulations, California and Pennsylvania Right to Know Acts.

SECTION 1 - PRODUCT IDENTIFICATION AND USE

Product name: Magi-Haze
Manufacturer's name: Majestech Corporation
Manufacturer's address: PO Box 440, Rt. 100, Somers, NY 10589 USA
Telephone number for information: Information: 1-800-431-2200 (US), +1-847-296-5090 (International)
Telephone number for emergencies: Emergencies (Infotrac): 1-800-636-6053 (US), +1-352-323-3500 (International)
DOT Class: 8, Corrosive liquids, n.o.s., (sodium hydroxide), PG II
UN/NA Number: UN 1760
Use: Removes stains from screen printing mesh.

SECTION 2 - COMPONENT INFORMATION

Hazardous components	Cas#	% (Optional)	OSHA PEL	ACGIH TLV	Other
Sodium Hydroxide	1310-73-2	< 20	2 mg/m ³	2 mg/m ³	
Aliphatic Ether Alcohol	***	***	N.D.	N.D.	

*** The specific chemical identity and/or weight percent is being withheld as a trade secret

SECTION 3 - PHYSICAL/CHEMICAL CHARACTERISTICS

Physical state, appearance and odor: Tan, viscous paste with slight solvent odor.

Boiling point:	> 212 F	Melting point:	< 32 F
Vapor pressure (mm Hg):	as water	Vapor density (air=1):	> 1
Evaporation rate (butylacetate=1):	< 1	% Volatile:	75
Density/specific gravity:	1.2	%VOC (less water and exempt solvents):	0
Solubility in water:	complete	pH:	14
*N.D.-No data, **N.A.-Not applicable		Coefficient of oil/water distribution:	N.D.

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

Explosion data: N.D.
Hazardous combustion products: CO / CO2 probable.
Extinguishing media: Foam, CO2, dry chemical or water spray.
Special fire fighting procedures: Wear full protective suit, face shield, and self-contained breathing apparatus.

Flammable	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Unusual fire or explosion hazards:	Combustible
Flash point (Method Used):	> 165 F, TCC	Autoignition temperature:	540 F
Upper explosive limit (UEL):	9.7% (Eth. Alcohol)	Lower explosive limit (LEL):	1.5% (Eth. Alcohol)
Sensitivity to mechanical impact:	stable	Sensitivity to static discharge:	N.D.

SECTION 5 - REACTIVITY DATA

Stable Yes No If no, conditions to avoid: N.A.
Hazardous Polymerization Yes No If yes, conditions to avoid: N.A.
Incompatibility, materials to avoid: Heat, direct sunlight, oxidizers, acids, aluminum
Hazardous decomposition products: CO / CO2 probable.

SECTION 6 - HEALTH HAZARD DATA/TOXICOLOGICAL PROPERTIES

Health hazards (Acute): Corrosive. Causes burns/damage to human tissue.
Health hazards (Chronic): None recorded.

Medical conditions generally aggravated by exposure: Pre-existing eye, skin and respiratory conditions.
Routes of exposure: symptoms

- Skin contact:** Direct contact will irritate/damage tissue.
- Eye contact:** Direct contact will irritate/damage eye tissue.
- Inhalation:** Inhalation of mist will irritate respiratory tract.
- Ingestion:** Will damage mucous membranes and tissues of the gastrointestinal tract.

Carcinogenicity: Yes No (NTP), Yes No (IARC), Yes No (OSHA)
LD50: 40 mg/kg- Intraperitoneal (mouse) for sodium hydroxide.
LC50: N.D.

Atapco

Office Products Group

Custom Products Division
1414 Crawford Drive, P.O. Box 191
Crawfordsville, IN 47933-0191

MATERIAL SAFETY DATA SHEET

IDENTITY (As Used on Label and List) 184 White Poly Sheet No. 164

Section I

Manufacturer's Name Crawford Industries	Emergency Telephone Number Chemtrec (800) 424-9300
Address (Number, Street, City, State, and ZIP Code) 1414 Crawford Drive Crawfordsville, Indiana 47933-0191	Telephone Number for Information (317) 362-6733
Date Prepared May 1991	Signature of Preparer (optional) <i>AD Kneissel</i>

Section II - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity, Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	Σ (optional)
High Density Polyethylene			(categorized as a nuisance particulate	
Polypropylene Copolymer			see below)*	
Titanium Dioxide	15 mg/M ³	10 mg/M ³		

* PEL/TWA (OSHA Permissible Exposure Limit/Time Weighted Average): For particulates not otherwise regulated, 15 mg/M³ for total dust and 5 mg/M³ for respirable dust.
TLV/TWA (ACGIH Threshold Limit Value/Time Weighted Average): For particulates not otherwise classified, 10 mg/M³ total dust.

Section III - Physical/Chemical Characteristics

Boiling Point	n/a	Specific Gravity (H ₂ O = 1)	PP 0.905-0.908	RDP 0.941-0.965
Vapor Pressure (mm Hg.)	n/a	Melting Point	PP 327°F	RDP 257-284°F
Vapor Density (AIR = 1)	n/a	Evaporation Rate (Butyl Acetate = 1)		n/a
Solubility in Water	Insoluble			
Appearance and Odor	Plastic sheet with no apparent odor			

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used)	n/a	Flammable Limits	n/a	LEL	n/a	UEL	n/a
Extinguishing Media	Water spray, dry chemical, foam or CO ₂						
Special Fire Fighting Procedures	Apply water as a spray from fogging nozzle since polyolefin is a surface burning material.						
Unusual Fire and Explosion Hazards	High velocity water will spread burning surface layer.						

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.

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)
Platinum Print Developer

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

Section I

Manufacturer's Name Recognition Systems, Inc.	Emergency Telephone Number 1-800-255-3924
Address (Number, Street, City, State, and ZIP Code) 30 Harbor Park Drive	Telephone Number for Information 1-516-625-5000
Port Washington, NY 11050	Date Prepared February 1992
	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	% (optional)
Weight % Component (CAS Registry No.)				
85-90 Water (007732-18-5)				
5-10 Sodium Sulfite (007757-83-7)				
1-5 Sodium Thiosulfate (007772-98-7)				
1-5 2-Methylaminoethanol (000109-83-1)				
1<5 Glycerol (007656-81-5)				
<5 Hydroquinone (000123-31-9)				

Section III — Physical/Chemical Characteristics

Boiling Point	> 100° C	Specific Gravity (H₂O = 1)	1.076
Vapor Pressure (mm Hg.)	20° C	Melting Point	
Vapor Density (AIR = 1)	0.6	Evaporation Rate (Butyl Acetate = 1)	
Solubility in Water			

Appearance and Odor
 Light Orange, Odorless

Section IV — Fire and Explosion Hazard Data

Flash Point (Method Used) None - Non Comb ustible Liquid	Flammable Limits N/A	LEL N/A	UEL N/A
--	--------------------------------	-------------------	-------------------

Extinguishing Media
 Use Appropriate Agent for Adjacent Fire

Special Fire Fighting Procedures
 Wear self-contained Breathing Apparatus and Protective Clothing

Fire or Heat may produce hazardous

Unusual Fire and Explosion Hazards
 None

701728

(Reproduce locally)

MANUFACTURER'S NAME:

DAR COMPANY
7 N NORTH BRANCH ST
CHICAGO IL 60622

EMERGENCY TELEPHONE NO. 913-384-3251
INFORMATION TELEPHONE NO. 415-233-9119

SECTION 1 -- PRODUCT INFORMATION

DUCT CODE: VF180

DE NAME: SCREEN INK THINNER

DUCT CLASS: SOLVENT

DUCT GROUP: VF

- H M I S C O D E S -
HEALTH - 1*
FLAMMABILITY - 2
REACTIVITY - 0

SECTION 2 -- HAZARDOUS INGREDIENTS

CHEMICAL NAME; COMMON NAME; NUMBER	PERCENT OCCUPATIONAL EXPOSURE LIMITS			VAPOR PRESSURE IN mmHg
	BY WEIGHT	TLV	PEL	
PHORONE; PHORONE; #: 78-59-1	25	5PPM CEILING VALUE	4PPM	Negligible
CETONE ALCOHOL; CETONE ALCOHOL; #: 123-42-2	25	50PPM	50PPM	1.0 @ 20C
ROLEUM DISTILLATE; MATIC HYDROCARBON; #: 64742-95-6	50	400PPM	500PPM	10 @ 38C

SECTION 3 -- PHYSICAL DATA

MELTING RANGE: 313 DEG. F - 420 DEG. F VAPOR DENSITY: HEAVIER THAN AIR
EVAPORATION RATE: SLOWER THAN ETHER PERCENT VOLATILE BY VOLUME: 100%
BOILING POINT: 888.00 g/l WEIGHT PER GALLON: 7.40 LBS
7.40 lb/gal
PERCENT VOLATILE EQUALS PERCENT VOC

SECTION 4 -- FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION:
OSHA CLASSIFICATION: Class II Combustible Liquid; DOT CLASSIFICATION:
Combustible Liquid

HAZARD COMMENTS:
NFPA RATING: H-1 F-2 R-0.

FLASH POINT:
110 F (TCC)

LOWER EXPLOSIVE LEVEL:
0.8 % Vol. in Air

EXTINGUISHING MEDIA:
Foam- CO2- Dry Chemical- Water Spray.

USUAL FIRE AND EXPLOSION HAZARDS:
Isolate from heat, electrical equipment, sparks, and open flame. Closed containers may explode when exposed to extreme heat.

SPECIAL FIREFIGHTING PROCEDURES:
Water may be ineffective but may be used to cool containers. The use of self-contained breathing apparatus is recommended for fire fighters.

SECTION 5 -- HEALTH HAZARD DATA

701729

EFFECTS OF OVEREXPOSURE:
Eye contact with the liquid, its vapors or mists may cause irritation

FACTURER'S NAME:

AR COMPANY
N NORTH BRANCH ST
AGO IL 60622

EMERGENCY TELEPHONE NO. 913-384-3251
INFORMATION TELEPHONE NO. 415-233-9119

SECTION 1 -- PRODUCT INFORMATION

JCT CODE: 2000

E NAME: 2000 WATERMASK FILLER

- H M I S C O D E S -
HEALTH - 1
FLAMMABILITY - 1
REACTIVITY - 0

JCT CLASS: PIGMENTED LIQUID GLUE

JCT GROUP:

SECTION 2 -- HAZARDOUS INGREDIENTS

ICAL NAME; CN NAME; NUMBER	PERCENT OCCUPATIONAL EXPOSURE LIMITS			VAPOR PRESSURE IN mmHg
	BY WEIGHT	TLV	PEL	
R; #: 7732-18-5	30-35	NOT ESTABLISHED	NOT ESTABLISHED	24 @ 25C
ENTS; URE; #'s: NOT ESTABLISHED	30-35	10MG/M3 (As DUST)	15MG/M3	N/A
N MIXTURES; #'s: NOT ESTABLISHED	30-35	NOT ESTABLISHED	NOT ESTABLISHED	< 1 @ 20C
OGEN FEROXIDE; #: 7722-84-1	< 2	1PPM	1PPM	23 @ 30C

SECTION 3 -- PHYSICAL DATA

ING POINT: 212 DEG. F
VAPOR DENSITY: HEAVIER THAN AIR
ORATION RATE: SLOWER THAN ETHER
PERCENT VOLATILE BY VOLUME: 4%
41.00 g/l
.34 lb/gal
WEIGHT PER GALLON: 11.60 LBS

PHOTOCHEMICALLY REACTIVE

SECTION 4 -- FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION:
OSHA CLASSIFICATION: Class IIIB Combustible Liquid; DOT CLASSIFICATION: Not Regulated

HAZARD COMMENTS:
NFPA RATING: H-1 F-1 R-0

FLASH POINT:
> 200 F

HAZARD EXPLOSIVE LEVEL:
Not applicable.

EXTINGUISHING MEDIA:
Foam- CO2- Dry Chemical- Water Spray.

ADDITIONAL FIRE AND EXPLOSION HAZARDS:
Isolate from heat, electrical equipment, sparks, and open flame. Closed containers may explode when exposed to extreme heat.

SPECIAL FIREFIGHTING PROCEDURES:
Water may be ineffective but may be used to cool containers. The use of self-contained breathing apparatus is recommended for fire fighters.

SECTION 5 -- HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE:

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MANUFACTURER'S NAME:

AR COMPANY
N. NORTH BRANCH ST.
AGO IL 60622

EMERGENCY TELEPHONE NO. 800-424-9300
INFORMATION TELEPHONE NO. 312-943-8338

SECTION 1 -- PRODUCT INFORMATION

PRODUCT NAME: GV SERIES GLOSS VINYL SCREEN INK

CD:GVNL
- H M I S C O D E S -
HEALTH - 2*
FLAMMABILITY - 2
REACTIVITY - 0

PRODUCT CLASS: SCREEN INK

PRODUCT GROUP: GV

PRODUCT	wt/gal	VOC	VOC	% VOC	PRODUCT	wt/gal	VOC	VOC	% VOC
	lb	g/l	lb/gal	VOL		lb	g/l	lb/gal	VOL
107	8.6	653	5.4	71	GV110	8.5	672	5.6	73
111	8.6	679	5.7	74	GV112	10.2	648	5.4	70
122	11.2	584	4.9	63	GV139	8.4	693	5.8	75
149	8.8	683	5.7	74	GV152	8.8	670	5.6	73
157	8.7	674	5.6	73	GV159	8.6	677	5.6	73
162	8.8	679	5.7	74	GV164	9.1	656	5.5	71
170	8.4	701	5.8	76	GV173	8.4	699	5.8	76
185	10.1	682	5.7	74	GV187	8.7	679	5.7	74

SECTION 2 -- HAZARDOUS INGREDIENTS

CHEMICAL NAME; ION NAME; NUMBER	-PERCENT-OCCUPATIONAL EXPOSURE LIMITS -		- VAPOR	
	- BY	- WEIGHT -	TLV	PEL
THORONE; THORONE; #: 78-59-1	5-46		5PPM CEILING VALUE	4PPM
IN MIXTURES; #: NOT AVAILABLE	20-30		NOT ESTABLISHED	NOT ESTABLISHED
OLEUM DISTILLATE; Aromatic HYDROCARBON; #: 64742-94-5	7-14		NOT ESTABLISHED	100PPM* *(SUPPLIER RECOMMENDATION)
OLEUM DISTILLATE; Aromatic HYDROCARBON; #: 64742-95-6	< 2		NOT ESTABLISHED	100PPM
ETROLEUM DISTILLATE; ITHALENE; #: 91-20-3	< 2		10PPM	10PPM
MENTS; URE; #: NOT AVAILABLE	0-33		10mg/m3*	15mg/m3*
IL 3-ETHOXYPROPIONATE; R SOLVENT EEP; #: 763-69-9	0-22		50PPM*	NOT ESTABLISHED
PPER COMPOUNDS; #: 7440-50-8; # & EXPOSURE LIMITS ARE (COPPER DUSTS & MISTS)	0-18		1MG/M3	1MG/M3
ETONE ALCOHOL; DROXY-4-METHYL-2-PENTANONE #: 123-42-2	0-11		50PPM	50PPM
UMINUM COMPOUNDS; #: 7429-90-5; # & TLV ARE (METAL DUST)	0- 9		10MG/M3	15MG/M3*
ION BLACK; IENT BLACK; # 1333-86-4	0- 5		3.500mg/m3	3.500mg/m3
NC COMPOUNDS; #: 7440-66-6;	0- 2		10MG/M3 INHALABLE	15MG/M3 TOTAL DUST

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RIBUTOR'S NAME:

AR COMPANY
N. NORTH BRANCH ST.
AGO, IL 60622

EMERGENCY TELEPHONE NO. 800-424-9300
INFORMATION TELEPHONE NO. 312-943-8338

SECTION 1 -- PRODUCT INFORMATION

JCT CODE: NB70

E NAME: NAZ BOND CATALYST

JCT CLASS: CATALYST

JCT GROUP:

- H M I S C O D E S -
HEALTH - 3*
FLAMMABILITY - 2
REACTIVITY - 1

SECTION 2 -- HAZARDOUS INGREDIENTS

ICAL NAME; CN NAME; NUMBER	-PERCENT-OCCUPATIONAL EXPOSURE LIMITS -			VAPOR PRESSURE IN mmHg
	-BY -WEIGHT -	TLV	PEL	
atic Polyisocyanate; ure; e Secret	60	NOT ESTABLISHED	NOT ESTABLISHED	N/A
YLENE GLY METHYL ETHER ACET; ETATE; H: 108-65-6	40	100PPM	100PPM	-3.8 @ 20C+
		+Manufacturer's Recommendation		
UENE DIISOCYANATE; #: 26471-62-5	< 1	.005PPM	.005PPM	< 1 @ 20C
		STEL: 0.02 PPM		
BJECT TO REPORTING REQUIREMENT- SECTION 313 OF TITLE III OF RA (40 CFR PART 372)				

SECTION 3 -- PHYSICAL DATA

ING RANGE: 280-300 DEG. F VAPOR DENSITY: HEAVIER THAN AIR
 ORATION RATE: SLOWER THAN ETHER PERCENT VOLATILE BY VOLUME: 48%
 447.00 g/l
 3.72 lb/gal WEIGHT PER GALLON: 9.60 LBS
 ENT VOLATILE = PERCENT VOC NONPHOTOCHEMICALLY REACTIVE

SECTION 4 -- FIRE AND EXPLOSION HAZARD DATA

MMABILITY CLASSIFICATIONN:
OSHA CLASSIFICATION: Class II Combustible Liquid; DOT CLASSIFICATION:
Combustible Liquid

ER COMMENTS:
NFPA RATING: H-3 F-2 R-1

SH POINT:
114F (SETA FLASH)

ER EXPLOSIVE LEVEL:
1.3 % Vol. in Air

INGUISHING MEDIA:
Foam- CO2- Dry Chemical- Water Spray.

SUAL FIRE AND EXPLOSION HAZARDS:
Isolate from heat, electrical equipment, sparks, and open flame. Closed
containers may explode when exposed to extreme heat. Vapors are heavier
than air and may travel to a source of ignition then flash back. During a
fire, TDI vapors & other irritating highly toxic gases may be generated by
thermal decomposition or combustion. (See Section VI).

SIAL FIREFIGHTING PROCEDURES:
Water may be ineffective but may be used to cool containers. The use of
self-contained breathing apparatus is recommended for fire fighters. Fumes
released on burning are toxic and dangerous. No skin surface should be

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CUSTOMER:01-1993MSD MATERIAL SAFETY DATA SHEET

MEMO: 3 METALLIC PIGMENT 02/01/94 REMIND:

SUPPLIER'S NAME: CRESCENT BRONZE POWDER CO., INC.
3400 N. AVONDALE AVE.
CHICAGO, IL 60618
312-539-2441TELEPHONE NO. F
TRANSPORTATION
EMERGENCIES ONL
1-800-535-5053-----
PRODUCT IDENTIFICATION
-----GENERIC/CHEMICAL NAME: Bronze powder or Copper/Zinc alloy metallic flake
PRODUCT NAME OR NUMBER:5, 6, 8, 11, 14, 26, 40, 52, 113, 177, 202, 252,
256, 309R, 325R, 352, 400R, V-798-29, 0-91
-----HAZARDOUS INGREDIENTS

INGREDIENT	CAS #	TSCA #	% BY WT.	TLV-TWA	STEL
COPPER *	7440-50-8	A546-0888	70 +/- 5	1 Mg/M3	2 Mg/M3
ZINC *	7440-66-6	B823-4379	30 +/- 5	5 Mg/M3	N.E.
ALUMINUM *	7429-90-5	A072-7839	0	10 Mg/M3	N.E.
ISOSTEARIC or	30399-84-9	Not Listed	0	N.E.	N.E.
STEARIC ACID	57-11-4	Not Listed	5 - 2.0	N.E.	N.E.

* INDICATES TOXIC CHEMICAL SUBJECT TO THE REPORTING REQUIREMENTS OF THE
EMERGENCY PLANNING & COMMUNITY RIGHT TO KNOW ACT OF 1986 (SARA TITLE III)
SECTION 313 AND 40CFR 372.NOTE: Percentage by weight ranges given in lieu of exact quantities due t
confidentiality and/or unknown composition from raw material suppliers.
-----PHYSICAL DATA AND OTHER SUPPLIER INFORMATION

	COPPER	ZINC	ALUMINUM	CARBON BLACK
BOILING RANGE:	4680 F.	1670 F.	3270 F.	8720 F.
MELTING POINT:	1980 F.	790 F.	1220 F.	6426 F.
EVAPORATION RATE:	N.A.	N.A.	N.A.	N.A.
VAPOR PRESSURE:	N.A.	N.A.	N.A.	N.A.
% VOLATILE BY VOL:	N.A.	N.A.	N.A.	N.A.
% VOLATILE BY WT:	N.A.	N.A.	N.A.	N.A.
VAPOR DENSITY:	N.A.	N.A.	N.A.	N.A.
V.O.C:	N.A.	N.A.	N.A.	N.A.
SPECIFIC GRAVITY:	8.92	7.14	2.70	1.79
WT. PER GAL:	74.36 LB	59.52 LB	22.51 LB	14.83 LB

FLAMMABILITY CLASS:

D.O.T. --METAL POWDERS, FLAMMABLE, N.O.S. ; 4.1 ; UN 3089 ; PGII
OSHA --NOT REGULATED

Material Safety Data Sheet

SOLAR WASH - Blend

QUICK IDENTIFIER
Common Name: (used on label and list)

May be used to comply with OSHA's Hazard Communication Standard, 29CFR 1910. 1200. Standard must be consulted for specific requirements.

SECTION 1 -

Manufacturer's Name **Solar Color & Chemical Co.**

Address **180 River Road**

City, State, and ZIP
Edgewater, New Jersey 07020

Emergency Telephone No. **(201) 945-5775**

Other Information Calls

Signature of Person Responsible for Preparation (Optional)

Date Prepared **January 5, 1986**

SECTION 2 - HAZARDOUS INGREDIENTS/IDENTITY

Hazardous Component(s) (chemical & common name(s))	OSHA PEL	ACGIH TLV	Other Exposure Limits	% (optional)	CAS NO.
MIBK Methyl Isobutyl Ketone					108-10-1
MEK Methyl Ethyl Ketone					78-93-3
Toluene			MIXTURE - BLEND		108-88-3
Acetone					67-64-1

See attached manufacturer's material safety data sheet

SECTION 3 - PHYSICAL & CHEMICAL CHARACTERISTICS

Boiling Point	Specific Gravity (H ₂ O=1)	Vapor Pressure (mm Hg)
Vapor Density (Air = 1)	Reactivity in Water	
Solubility in Water	Melting Point	
Appearance and Odor		

SECTION 4 - FIRE & EXPLOSION DATA

Flash Point	F. C. Method Used	Flammable Limits in Air % by Volume	LEL Lower	UEL Upper
Auto-Ignition Temperature	Extinguisher Media			
Special Fire Fighting Procedures				
Unusual Fire and Explosion Hazards				

701735

MATERIAL SAFETY DATA SHEET

(Approved by U.S. Department of Labor as "essentially similar" to Form L58-005-4)

EXXON CHEMICAL AMERICAS • P.O. BOX 3272, HOUSTON, TEXAS 77001
A Division of EXXON CHEMICAL COMPANY, a Division of EXXON CORPORATION

Acetone
PRODUCT

MANUFACTURER'S NAME EXXON CHEMICAL AMERICAS		INDUSTRIAL PETROCHEMICALS, INC. 128 Doremus Avenue Newark, New Jersey 07105 Tel: (201) 589-1450	EMERGENCY TELEPHONE NO. 713 - 870-6000
ADDRESS (Number, Street, City, State and ZIP Code) P. O. BOX 3272, HOUSTON, TEXAS 77001			
TRADE NAME Acetone	CHEMICAL NAME 2-propanone		
CHEMICAL FAMILY Ketone	CHEMICAL FORMULA CH ₃ COCH ₃		

SECTION II-HAZARDOUS COMPONENTS OF MIXTURES

The precise composition of this product is proprietary information. A more detailed disclosure will be provided by Exxon Medical or Industrial Hygiene personnel to qualified Medical or Industrial Hygiene personnel as privileged information upon request in case of need for specific treatment.

Not Applicable to Pure Chemicals.

SECTION III-TYPICAL PHYSICAL DATA

APPEARANCE AND ODOR Clear colorless liquid, sweet pungent odor	SPECIFIC GRAVITY 0.792 at 20/20°C (68/68°F)
BOILING POINT (°F) 56°C (133°F)	PERCENT VOLATILE (BY VOLUME) 100%
VAPOR PRESSURE 380 mm Hg at 38°C (100°F)	EVAPORATION RATE (n-BUTYL ACETATE = 1) 11.6
VAPOR DENSITY (AIR = 1) 2.0	
SOLUBILITY IN WATER Complete	

SECTION IV-FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method) Tag closed cup - 18°C (0°F)	FLAMMABLE LIMITS (PERCENT BY VOLUME) At 25°C (77°F)	Lower 2.6	Upper 13.0
--	---	---------------------	----------------------

FIRE EXTINGUISHING MEDIA
Dry chemical or alcohol-type foam. Waterspray may be ineffective

SPECIAL FIRE FIGHTING PROCEDURES
Use waterspray to cool fire-exposed surfaces and to protect personnel.

UNUSUAL FIRE AND EXPLOSION HAZARDS
Respiratory protection required for fire fighting personnel.

Stay upwind, if possible. Cool exposed tanks with water.

HAZARDOUS PRODUCTS OF COMBUSTION
No unusual products of combustion.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty or guarantee is made as

to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use. We do not accept liability for any loss or damage that may occur from the use of this information nor do we offer any warranty against patent infringement.

(06-80)

MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

DISTRIBUTOR Metro Oil & Chemical Corporation		EMERGENCY TELEPHONE NO. 9-5pm 201-941-3480 After 201-941-3470
ADDRESS (Number, Street, City, State, and ZIP Code) 343 South Broad Avenue, Ridgfield, New Jersey 07657		
CHEMICAL NAME AND SYNONYMS Toluene	TRADE NAME AND SYNONYMS Toluene	
CHEMICAL FAMILY Petroleum Hydrocarbon	FORMULA C₇ H₈	

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS			BASE METAL		
CATALYST			ALLOYS		
VEHICLE			METALLIC COATINGS		
SOLVENTS	100	100 ppm	FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES			OTHERS		
OTHERS					
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	230-232 °F	SPECIFIC GRAVITY (H ₂ O=1)	15/6° / 15.6° C	0.87
IBP-Dry Pt.	110.2-111 °C	PERCENT VOLATILE BY VOLUME (%)		100
VAPOR PRESSURE (mm Hg.) @ 25 °C	54	EVAPORATION RATE (_____ =1)		1.8
VAPOR DENSITY (AIR=1)	3.2	SOLUBILITY IN WATER	negligible	
APPEARANCE AND ODOR	Water white liquid. Aromatic Hydrocarbon odor.			

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	Tag Closed Cup 7 °C (45 °F)	FLAMMABLE LIMITS	Lel 1.2%	Uel 7.0%
EXTINGUISHING MEDIA	Foam, dry chemical, CO ₂ , water spray or fog.			
SPECIAL FIRE FIGHTING PROCEDURES	Use air-supplied rescue equipment for enclosed areas. Cool exposed containers with water spray. Avoid breathing vapor or fumes.			
UNUSUAL FIRE AND EXPLOSION HAZARDS	Do not mix or store with strong oxidants like liquid chlorine or concentrated oxygen. FLAMMABLE LIQUID.			






MATERIAL SAFETY DATA SHEET

INDUSTRIAL PETROCHEMICALS, INC.
 128 Doremus Avenue
 Newark, New Jersey 07105
 Tel: (201) 589-1450

MSDS NUMBER ▶ 5,390-3

PAGE 1 OF 4

SECTION I		NAME		24 HOUR EMERGENCY ASSISTANCE				
PRODUCT ▶	Methyl Ethyl Ketone			SHELL	713-473-9461		 HEALTH 1	
CHEMICAL/ SYNONYMS ▶	MEK, 2-butanone			CHEMTREC	800-424-9300			
CHEMICAL FAMILY ▶	Ketone			HAZARD RATING LEAST 0 ▶ ELIGHT 1 ▶ MODERATE 2 ▶ HIGH 3 ▶ EXTREME 4				 FIRE 3
SHELL CODE ▶	31210	C.A.S. NUMBER ▶	78-93-3					 REACTIVITY 0

SECTION II		INGREDIENTS		TOXICITY DATA	
COMPOSITION	%				
Methyl Ethyl Ketone	100	Oral LD ₅₀ (rat) = 3.3g/kg Dermal LD ₅₀ (rabbit) => 8ml/kg Inhalation LC ₅₀ (rat) = >2,000ppm/2 hours			

SECTION III HEALTH INFORMATION

Eye Contact: liquid is highly irritating to the eyes; vapors are also irritating.

Skin Contact: liquid is moderately irritating to the skin. Repeated, prolonged contact can result in defatting and drying of the skin which may lead to dermatitis.

Inhalation: breathing high vapor concentrations or prolonged breathing of lower concentrations can cause nose and throat irritation and may cause headache, dizziness and loss of consciousness.

Note: Minor embryotoxic/fetotoxic effects have been observed in laboratory rats exposed to over 1000 ppm of MEK for most of the gestation period by the inhalation route (5X the OSHA-PEL/TWA).

SECTION IV OCCUPATIONAL EXPOSURE LIMITS

ACGIH-TLV/TWA = 200 ppm
 -TLV/STEL = 300 ppm
 OSHA-PEL/TWA = 200 ppm



MATERIAL SAFETY DATA SHEET

S#4 MIBK

97002 (REV 1-83)

MSDS NUMBER ▶ 5,060-3

PAGE 1 OF 4

SECTION I		NAME		24 HOUR EMERGENCY ASSISTANCE			
PRODUCT ▶	Methyl Isobutyl Ketone			SHELL	713-473-9461		HEALTH 2
CHEMICAL/ SYNONYMS ▶	MIBK, 4-methyl-2-pentanone			CHEMTREC	800-424-9300		
CHEMICAL FAMILY ▶	Ketone			HAZARD RATING LEAST 0 SLIGHT 1 MODERATE 2 HIGH 3 EXTREME 4			
SHELL CODE ▶	31135	C.A.S. NUMBER ▶	108-10-1	FIRE 3 REACTIVITY 0			

SECTION II		INGREDIENTS	
	COMPOSITION	%	TOXICITY DATA
	Methyl Isobutyl Ketone	100	Oral LD ₅₀ (rat) = 2.08g/kg Dermal LD ₅₀ (rabbit) = >20ml/kg Inhalation LC ₅₀ (rat) = 2,000-6,000ppm/4 hours

SECTION III HEALTH INFORMATION

Liquid is irritating to the eyes.

Prolonged or repeated contact of liquid with skin can cause dryness and irritation.

Breathing high vapor concentrations or prolonged exposure to vapors can cause irritation of the eyes, nose and throat and may cause headache, dizziness, nausea and unconsciousness.

SECTION IV OCCUPATIONAL EXPOSURE LIMITS

OSHA PEL and ACGIH TLV = 100ppm or 410mg/m³ TWA (8-hour workday)
 ACGIH TLV = 125ppm or 510 mg/m³ STEL

701739

1000-12-93

Material Safety Data Sheet

SVG. GLOSS VINYL INKS

QUICK IDENTIFIER
Common Name: (used on label and list)

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

SECTION 1 - Gloss Vinyl Inks - SVG Gloss Vinyl Colors & Color Matches (SP)

Manufacturer's Name: Solar Color & Chemical Co.

Address: 180 River Road

City, State, and ZIP: Edgewater, NJ 07020

Emergency Telephone No.: (201) 945-5775

Other Information Calls:

Signature of Person Responsible for Preparation (Optional):

Date Prepared: January 29, 1986

SECTION 2 - HAZARDOUS INGREDIENTS/IDENTITY

Hazardous Component(s) (chemical & common name(s))	OSHA PEL	ACGIH TLV	Other Exposure Limits	% (optional)	CAS NO.
Cyclohexanone		25	Varies		108-10-1
Aromatic Hydrocarbon		100	Varies		64742-95-6
Aromatic Hydrocarbon		35	Varies		64742-95-5

Some colors are made with lead chromate pigments. See Attached List - Section 9

SECTION 3 - PHYSICAL & CHEMICAL CHARACTERISTICS

Boiling Point	313°F - 400°F	Specific Gravity (H ₂ O=1)	0.887	Vapor Pressure (mm Hg)	3
	Vapor Density (Air = 1)	Heavier than air			
Solubility in Water	Very slight	Reactivity in Water	None		
Appearance and Odor	Varies with color-aromatic	Melting Point	None		

SECTION 4 - FIRE & EXPLOSION DATA

Flash Point	110° F.	C.	Method Used	TCC	Flammable Limits in Air % by Volume	LEL Lower	0.7	UEL Upper	1.1
Auto-Ignition Temperature					Extinguisher Media	CO ₂ , Foam, Dry Chemical			
Special Fire Fighting Procedures	Keep adjacent containers cool with water. On fire, use self-contained breathing apparatus								
Unusual Fire and Explosion Hazards									

Since the inks are combustible do not expose to high heat or any source of ignition. Containers exposed to intense heat should be cooled with water to prevent container rupture.

701740

SVG - GLOSS VINYL INKS

SECTION 9

Additional Information

Please be advised that the following inks listed below, in accordance with information we have received from our suppliers, are made with non-lead compounds:

SVG-21	Bright Red
SVG-25	Maroon
SVG-35	Cerise
SVG-36	Magenta
SVG-39	Purple
SVG-43	Perma Green
SVG-50	Sky Blue
SVG-51	Opaque Ultra Blue
SVG-55	Perma Blue
SVG-57	Reflex Blue
SVG-70	White
SVG-72	Super White
SVG-75	Black
SVG-78	Clear
SVG-80	Base

We wish to advise you that the following inks are made with lead compounds:

SVG-01	Primrose Yellow
SVG-02	Lemon Yellow
SVG-03	Chrome Yellow
SVG-11	Tropic Orange
SVG-20	Fire Red
SVG-40	Spring Green
SVG-41	Emerald Green

MATERIAL SAFETY DATA SHEET

Page 1

SECTION 1 PRODUCT IDENTIFIER

01 SERIES U.V. CURABLE INK

NOR-COTE INTERNATIONAL, INC.
P.O. Box 668
Crawfordsville, IN 47933
Phone: (317) 362-9180
FAX: (317) 364-5408
24 Hr. Emergency Phones:
(317) 366-1121 or (317) 362-9180
Revision date: 6/11/1993

HMIS: HEALTH - 2 FLAMMABILITY - 1 REACTIVITY - 1

SECTION 2 INGREDIENTS

PRINCIPAL COMPONENTS:	WT%	CAS#	EXPOSURE LIMITS PEL/TLV
MIXTURE OF:			
Acrylated oligomers	45-79%	proprietary	Not established (NE)
N-Vinyl-2-Pyrrolidone (See section 4)	06% in 01-002	88-12-0	0.1 ppm Manufacturer Recommended
Acrylated monomers	15-30%	proprietary	Not established

SECTION 3 FIRE PROTECTION

FLASHPOINT: >200°F
METHOD: Open Cup
EXTINGUISHING METHOD: Water fog, carbon dioxide (CO2) or dry chemical

FLAMMABLE LIMITS: Lower Upper
(Vol. % in air) NE NE

SPECIAL FIRE FIGHTING PROCEDURES:

Evacuate area of all non-emergency personnel. Fire fighters must wear full emergency equipment with self contained breathing apparatus. At elevated temperatures hazardous polymerization may occur causing container rupture and in extreme cases, explosion. Fight fires from upwind and cool intact containers with water spray or steam at maximum range.

SECTION 4 HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE: Ingredients are a potential irritant to eyes, skin and respiratory tract. Effects may be delayed for several hours. Prolonged or repeated exposure may result in sensitization. N-Vinylpyrrolidone (NVP) is moderately toxic by ingestion and may be absorbed via skin or inhalation. Acute and subchronic animal studies indicate that overexposure to NVP by ingestion or inhalation may result in liver and kidney injury. Rats exhibited minor liver changes at airborne levels of 15 ppm and irritation of the nasal mucosa at 5 ppm. Rats exposed to 5, 10, and 20 ppm exhibited benign or malignant tumors of the nasal tissues. Only benign tumors observed among females at 10 ppm, and males and females at 5 ppm.

EMERGENCY & FIRST AID PROCEDURES:

INHALATION: Move subject to fresh air and keep warm. If not breathing administer artificial respiration. If breathing is difficult, have qualified personnel administer oxygen and get medical attention.

SKIN CONTACT: Remove and isolate contaminated clothing and shoes. Remove excess material from skin with clean cloth. Flush skin with running water. Wash affected areas using mild soap.

EYE CONTACT: Flush the eye and under lids with warm water for 15 minutes. Get medical attention.

INGESTION: If appreciable quantities are swallowed, seek immediate medical attention.

CARCINOGENICITY: IARC? no NTP? no OSHA? no

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MATERIAL SAFETY DATA SHEET

Page 1

SECTION 1 PRODUCT IDENTIFIER

02 SERIES U.V. CURABLE INK

NOR-COTE INTERNATIONAL, INC.
P.O. Box 668
Crawfordsville, IN 47933
Phone: (317) 362-9180
FAX (317) 364-5408
24 HR. EMERGENCY PHONES:
317)366-1121 OR (317) 362-9180
Revised 4/25/93

HMIS: HEALTH - 2 FLAMMABILITY - 1 REACTIVITY - 1

SECTION 2 INGREDIENTS

PRINCIPAL COMPONENTS:	WT%	CAS#	EXPOSURE LIMITS PEL/TLV
MIXTURE OF:			
Acrylated oligomers	29-65%	proprietary	Not established (NE)
N-Vinyl-2-Pyrrolidone (See section 4)	05-27%	88-12-0	0.1 ppm Manufacturer Recommended
Acrylated monomers	06-28%	proprietary	Not established

SECTION 3 FIRE PROTECTION

FLASHPOINT: >200° F
METHOD: Open Cup
EXTINGUISHING METHOD: Water fog, carbon dioxide (CO2) or dry chemical

FLAMMABLE LIMITS: Lower Upper
(Vol. % in air) NE NE

SPECIAL FIRE FIGHTING PROCEDURES:

Evacuate area of all non-emergency personnel. Fire fighters must wear full emergency equipment with self contained breathing apparatus. At elevated temperatures hazardous polymerization may occur causing container rupture and in extreme cases, explosion. Fight fires from upwind and cool intact containers with water spray or stream at maximum range.

SECTION 4 HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE: Ingredients are a potential irritant to eyes, skin and respiratory tract. Effects may be delayed for several hours. Prolonged or repeated exposure may result in sensitization. N-Vinylpyrrolidone (NVP) is moderately toxic by ingestion and may be absorbed via skin or inhalation. Acute and subchronic animal studies indicate that overexposure to NVP by ingestion or inhalation may result in liver and kidney injury. Rats exhibited minor liver changes at airborne levels of 15 ppm and irritation of the nasal mucosa at 5 ppm. Rats exposed to 5, 10, and 20 ppm exhibited benign or malignant tumors of the nasal tissues. Only benign tumors observed among females at 10 ppm, and males and females at 5 ppm.

EMERGENCY & FIRST AID PROCEDURES:

INHALATION: Move subject to fresh air and keep warm. If not breathing administer artificial respiration. If breathing is difficult, have qualified personnel administer oxygen and get medical attention.

SKIN CONTACT: Remove and isolate contaminated clothing and shoes. Remove excess material from skin with clean cloth. Flush skin with running water. Wash affected areas using mild soap.

EYE CONTACT: Flush the eye and under lids with warm water for 15 minutes. Get medical attention.

INGESTION: If appreciable quantities are swallowed, seek immediate medical attention.

CARCINOGENICITY: IARC? no NTP? no OSHA? no

SECTION 5 PHYSICAL DATA

BOILING POINT(F): Not Applicable(NA)
VAPOR PRESSURE(mm Hg): Not Established
SOLUBILITY IN WATER: Not Soluble
APPEARANCE AND ODOR: Moderate viscosity liquid with mild odor
Weight per gallon 7 - 13 lb.'s. Variance due to pigmentation.

SPECIFIC GRAVITY: NE
VOC: < 0.5%
EVAPORATION RATE: <1

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MATERIAL SAFETY DATA SHEET

Page 1

SECTION 1 PRODUCT IDENTIFIER

700 INITIATOR

NOR-COTE INTERNATIONAL, INC.
P.O. Box 668
Crawfordsville, IN 47933
Phone: (317) 362-9180
24 Hr. Emergency Phones:
(317) 366-1121 or (317) 362-9180
Revision date: 4/25/1993

HMIS: HEALTH - 2 FLAMMABILITY - 1 REACTIVITY - 1

SECTION 2 INGREDIENTS

PRINCIPAL COMPONENTS:	WT%	EXPOSURE LIMITS PEL/TLV
MIXTURE OF: Methyldiethaniamine and tertiary amines	100%	Not Established (NE)

SECTION 3 FIRE PROTECTION

FLASHPOINT: >200°F
METHOD: (PMCC)
EXTINGUISHING METHOD: Water fog, carbon dioxide (CO2) or dry chemical, Alcohol Foam, Foam

FLAMMABLE LIMITS: Lower Upper
NE NE

SPECIAL FIRE FIGHTING PROCEDURES:

Evacuate area of all non-emergency personnel. Fire fighters must wear full emergency equipment with self contained breathing apparatus. At elevated temperatures hazardous polymerization may occur causing container rupture and in extreme cases, explosion. Fight fires from upwind and cool intact containers with water spray or stream at maximum range.

SECTION 4 HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE: Can cause eye and skin irritation. Effects may be delayed for several hours.

EMERGENCY & FIRST AID PROCEDURES:

PRIMARY ROUTE OF ENTRY: Dermal

SKIN CONTACT: Remove and isolate contaminated clothing and shoes. Remove excess material from skin with clean cloth. Flush skin with running water. Wash affected areas using mild soap.

EYE CONTACT: Flush the eye and under lids with warm water for 15 minutes. Get medical attention.

INGESTION: If appreciable quantities are swallowed, seek immediate medical attention.

SECTION 5 PHYSICAL DATA

BOILING POINT(F) Not applicable
VAPOR PRESSURE(vs. air): Heavier
SOLUBILITY IN WATER: (vs. water): Heavier
APPEARANCE AND ODOR: Pale amber/yellow liquid with amino odor

VOC: < 0.5%
EVAPORATION RATE: <1

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MATERIAL SAFETY DATA SHEET

SECTION 1 PRODUCT IDENTIFIER

300 MATTING POWDER

NOR-COTE INTERNATIONAL INC.

P.O. Box 668
Crawfordsville, IN 47933
Phone: (317)362-9180
Emer. Phone:(317) 366-1121
Revision date:1/12/1996

HMSIS: HEALTH - 1 FLAMMABILITY - 1 REACTIVITY - 0 PERSONAL PROTECTION "E"

SECTION 2 INGREDIENTS

PRINCIPAL COMPONENTS:	WT%	CAS#	EXPOSURE LIMITS PEL/TLV
MIXTURE OF:			OSHA 20 mppcf ACGIH 2MG/M3 (respirable dust)
Magnesium Silicate Hydrate	100%	14807-96-6	

SECTION 3 FIRE PROTECTION

FLASHPOINT: Non-Flammable
METHOD: Non- Flammable
EXTINGUISHING METHOD: None

FLAMMABLE LIMITS: Lower Upper
Non- Flammable

SPECIAL FIRE FIGHTING PROCEDURES: None

SECTION 4 HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE: *Ingredients are a potential irritant to respiratory tract and a dryness of the skin may occur.*

EMERGENCY & FIRST AID PROCEDURES:

Wash dust from skin with soap and water. Flush out eyes with generous amounts of water for at least 15 minutes. See a physician if irritation persists.

SECTION 5 PHYSICAL DATA

BOILING POINT(F): Not Applicable(NA)
VAPOR PRESSURE(mm Hg): NE
SOLUBILITY IN WATER: Not Soluble
APPEARANCE AND ODOR: White to off-white powder, odorless.

SPECIFIC GRAVITY: 2.5 - 2.8
VOLATILE: 0
EVAPORATION RATE: 0

SECTION 6 REACTIVITY HAZARD DATA

STABILITY: This material is stable under recommended storage and handling conditions.

CONDITIONS TO AVOID: Avoid unnecessary agitation in order to prevent formation of dust.

INCOMPATIBILITY: None known.

HAZARDOUS DECOMPOSITION PRODUCTS: None known.

SECTION 1 PRODUCT IDENTIFIER

ADHESION MODIFIER

NOR-COTE INTERNATIONAL, INC.
 P.O. Box 668
 Crawfordsville, IN 47533
 Phone: (317) 362-9180
 Emergency Phone: (317) 366-1121 or (317) 362-9180
 Revision date: 4/25/1993

HEALTH - 2 FLAMMABILITY - 1 REACTIVITY - 1

SECTION 2 INGREDIENTS

PRINCIPAL COMPONENTS:	CAS#	WT%	EXPOSURE LIMITS PEL/TLV
URE OF: 1,2-ethanediamine	105-59-9	80%	Not Established (NE)
ne Fluid	Proprietary	20%	Not Established (NE)

SECTION 3 FIRE PROTECTION

FLASH POINT: >200°F
 FID: Open Cup
 FLAMMABLE LIMITS: Lower Upper
 (Vol. % in air) NE NE
 EXTINGUISHING METHOD: Water fog, carbon dioxide (CO2), dry chemical, Foam or Alcohol Foam

USUAL FIRE FIGHTING PROCEDURES:

Exclude area of all non-emergency personnel. Fire fighters must wear full emergency equipment with self contained breathing apparatus. At elevated temperatures hazardous polymerization may occur causing container rupture and in extreme cases, explosion. Fight fires from upwind. Do not direct water spray or stream at maximum range.

SECTION 4 HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE: Ingredients are a potential irritant to eyes, skin and respiratory tract. Effects may be delayed for several days. Prolonged or repeated exposure may result in sensitization.

EMERGENCY & FIRST AID PROCEDURES:

INHALATION: Move subject to fresh air and keep warm. If not breathing administer artificial respiration. If breathing is difficult have qualified personnel administer oxygen. Get medical attention.

SKIN CONTACT: Remove excess material from skin with clean cloth. Flush skin with running water. Wash affected areas using mild soap.

EYE CONTACT: Flush the eye and under lids with warm water for 15 minutes. Get medical attention.

INGESTION: If appreciable quantities are swallowed, seek immediate medical attention.

MUTAGENICITY: IARC? no NTP? no OSHA? no

701746

MATERIAL SAFETY DATA SHEET

SECTION 1 PRODUCT IDENTIFIER

174 ADHESION PROMOTER

NOR-COTE INTERNATIONAL, INC.
P.O. Box 668
Crawfordsville, IN 47933
Phone: (317) 362-9180
24 Hr. Emergency Phones:
(317) 366-1121 or (317) 362-9180
Revision date: 6/11/1993

HMS: HEALTH - 2 FLAMMABILITY - 1 REACTIVITY - 1

SECTION 2 INGREDIENTS

PRINCIPAL COMPONENTS:	WT%	CAS#	EXPOSURE LIMITS PELTLY
Primary-Secondary and tertiary Amines	100%	Proprietary	Not Established

SECTION 3 FIRE PROTECTION

FLASH POINT: >200°F Method: (PMCC) FLAMMABLE LIMITS: Lower Upper
NE NE

EXTINGUISHING METHOD: Water fog, carbon dioxide, (CO2), dry chemical, foam or alcohol foam.

ADDITIONAL FIRE FIGHTING PROCEDURES: Evacuate area of all non-emergency personnel. Firefighters must wear full protective equipment with self-contained breathing apparatus. Fight fire from up-wind. Cool closed containers using water from a safe distance. Contain or dike run-off water to prevent it from entering streams or sewers.

SECTION 4 HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE: Contact with eyes and skin may result in irritation. Effects may be delayed several hours.

ROUTE OF EXPOSURE: Dermal

SYMPTOMS & FIRST AID PROCEDURES:

SKIN CONTACT: Remove excess and wash affected area with soap and water. Launder contaminated clothing before reuse. If irritation persists, get medical attention.

EYE CONTACT: Flush eyes and under lids with warm water for 15 minutes, seek medical attention.

INGESTION: If appreciable amounts are swallowed, Get immediate medical attention.

INHALATION: Move to fresh air. Aid in breathing if necessary, and get immediate medical attention.

TOXICITY: IARC? no NTP? no OSHA? no

SECTION 5 PHYSICAL DATA

STATE: Not Applicable (N/A)

DENSITY (vs. air): Heavier

SOLUBILITY: Slightly soluble

COLOR AND ODOR: Pale amber / yellow liquid with amino odor.

RELATIVE DENSITY (vs water) Heavier

EVAPORATION RATE: Slower

Butyl Acetate = 1

VOC: <0.5%

701747

SECTION 1 PRODUCT IDENTIFIER

02/04-070 THINNER

NOR-COTE INTERNATIONAL, INC.
 P.O. Box 668
 Crawfordsville, IN 47933
 Phone: (317) 362-9180
 Emergency Phones:
 (317) 366-1121 or (317) 362-9180
 Revision date: 4/25/1993

HMIS: HEALTH - 2 FLAMMABILITY - 1 REACTIVITY - 1

SECTION 2 INGREDIENTS

PRINCIPAL COMPONENTS:	CAS#	WT%	EXPOSURE LIMITS PEL/TLV
MIXTURE OF: Acrylated monomers	Proprietary	35%	Not Established (NE)
N-Vinyl Pyrrolidone (See Section 4)	88-12-0	63%	0.1 PPM Manufacturers Recommendation

SECTION 3 FIRE PROTECTION

FLASHPOINT: >200° F
 METHOD: Open
 EXTINGUISHING METHOD: Water fog, carbon dioxide (CO2), dry chemical, Foam or Alcohol Foam

FLAMMABLE LIMITS: Lower Upper
 (Vol. % in air) NE NE

SPECIAL FIRE FIGHTING PROCEDURES:

Evacuate area of all non-emergency personnel. Fire fighters must wear full emergency equipment with self contained breathing apparatus. At elevated temperatures hazardous polymerization may occur causing container rupture and in extreme cases, explosion. Fight fires from upwind and cool intact containers with water spray or stream at maximum range.

SECTION 4 HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE: Ingredients are a potential irritant to eyes, skin and respiratory tract. Effects may be delayed for several hours. Prolonged or repeated exposure may result in sensitization. N-Vinyl pyrrolidone (NVP) is moderately toxic by ingestion and may be absorbed via skin or inhalation. Acute and subchronic animal studies indicate that overexposure to NVP by ingestion or inhalation may result in liver and kidney injury. Rats exhibited minor liver changes at airborne levels of 15 PPM and irritation of nasal mucosa at 5 PPM. Rats exposed to 5, 10, and 20 PPM exhibited benign or malignant tumors of nasal tissues. Only benign tumors observed among females at 10 PPM, and males and females at 5 PPM.

EMERGENCY & FIRST AID PROCEDURES:

INHALATION: Move subject to fresh air and keep warm. If not breathing administer artificial respiration. If breathing is difficult have qualified personnel administer oxygen. Get medical attention.

SKIN CONTACT: Remove excess material from skin with clean cloth. Flush skin with running water. Wash affected areas using mild soap.

EYE CONTACT: Flush the eye and under lids with warm water for 15 minutes. Get medical attention.

INGESTION: If appreciable quantities are swallowed, seek immediate medical attention.

SECTION 5 PHYSICAL DATA

BOILING POINT(F): Not Applicable(NA)
 VAPOR PRESSURE (vs. air): Heavier
 LIQUID DENSITY : (vs. water) : Heavier
 APPEARANCE AND ODOR: Low viscosity liquid with mild odor

EVAPORATION RATE: <1

VOC: <0.5%

701748

MATERIAL SAFETY DATA SHEET

Page 1

SECTION 1 PRODUCT IDENTIFIER

02 24 50 80 079 FLEXIBLE AGENT

NOR-COTE INTERNATIONAL, INC.
P.O. Box 663
Crawfordsville, IN 47933
Phone: (317) 362-9180
Emergency Phone:
(317) 366-1121 or (317) 362-9180
Revision date: 4/25/1993

HMIS: HEALTH - 2 FLAMMABILITY - 1 REACTIVITY - 1

SECTION 2 INGREDIENTS

PRINCIPAL COMPONENTS:	WT%	CAS#	EXPOSURE LIMITS PEL/TLV
MIXTURE OF:			
Acrylated oligomers	50-67%	proprietary	Not established (NE)
N-Vinyl-2-Pyrrolidone (See Section 4)	5.0 %	88-12-00	1 ppm Manufacturers Recommendation

SECTION 3 FIRE PROTECTION

FLASHPOINT: >200°F FLAMMABLE LIMITS: Lower Upper
METHOD: Open Cup (Vol. % in air) NE NE
EXTINGUISHING METHOD: Water fog, carbon dioxide (CO2) or dry chemical

SPECIAL FIRE FIGHTING PROCEDURES: Evacuate area of all non-emergency personnel. Fire fighters must wear full emergency equipment with self contained breathing apparatus. At elevated temperatures hazardous polymerization may occur causing container rupture and in extreme cases, explosion. Fight fires from upwind and cool intact containers with water spray or stream at maximum range.

SECTION 4 HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE: Ingredients are a potential irritant to eyes, skin and respiratory tract. Effects may be delayed for several hours. Prolonged or repeated exposure may result in sensitization. N-Vinylpyrrolidone (NVP) is moderately toxic by ingestion and may be absorbed via skin or inhalation. Acute and subchronic animal studies indicate that overexposure to NVP by ingestion or inhalation may result in liver and kidney injury. Rats exhibited minor liver changes at airborne levels of 15 ppm and irritation of the nasal mucosa at 5 ppm. Rats exposed to 5, 10, and 20 ppm exhibited benign or malignant tumors of the nasal tissues. Only benign tumors observed among females at 10 ppm, and males and females at 5 ppm.

EMERGENCY & FIRST AID PROCEDURES:

INHALATION: Move subject to fresh air and keep warm. If not breathing administer artificial respiration. If breathing is difficult, have qualified personnel administer oxygen and get medical attention.

SKIN CONTACT: Remove and isolate contaminated clothing and shoes. Remove excess material from skin with clean cloth. Flush skin with running water. Wash affected areas using mild soap.

EYE CONTACT: Flush eye and under lids with warm water for 15 minutes. Get medical attention.

INGESTION: If appreciable quantities are swallowed seek immediate medical attention.

CARCINOGENICITY: IARC? no NTP? no OSHA? no

701749

MATERIAL SAFETY DATA SHEET

O'SULLIVAN PLASTICS CORPORATION:
 1944 VALLEY AVE.
 WINCHESTER, VA 22601

1507 WILLOW ST.
 LEBANON, PA 17045

REGALITE PLASTICS:
 300 NEEDHAM ST.
 NEWTON UPPER FALLS, MA 02164

270 N. HIGHWAY 95A
 YERINGTON, NV 89447

EMERGENCY NUMBERS:

O'SULLIVAN CORP: (703) 667-6666 (USA)
 CHEM-TEL INC: 1-800-255-3924 (USA)

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: HC-Series

CHEMICAL NAME & SYNONYMS: Poly (Vinyl Chloride), PVC, Vinyl
TRADE NAMES & SYNONYM: Sheet Vinyl - Color and Thickness Vary

CHEMICAL FAMILY: Vinyl Resin - **FORMULA:** $-CH_2CHCl_n-$ & FUNCTIONAL ADDITIVES

SECTION II - COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	% BY WEIGHT	CAS #
PIGMENTS	0 - 5%	
PVC RESIN	**	9002-86-2
CALCIUM CARBONATE	**	4471-34-1
STABILIZERS	**	
PLASTICIZERS	**	
EPOXIDIZED SOYBEAN OIL	**	8013-07-8

NOTE: Due to the introduction of recycled material, only added ingredients can be accurately calculated

SARA 313 HAZARDOUS INGREDIENTS

CHEMICAL NAME	% BY WEIGHT	CAS #
BARIUM SALTS (AS Ba COMPOUNDS)	< 8.50 %	
ZINC SALTS (AS Zn COMPOUNDS)	< 1.90 %	
CONEG METALS (Cd, Cr, Pb, Hg)	varry with color 0-100 PPM	
DI(2-ETHYLHEXYL) PHTHALATE	< 31.0 %	77-81-7

NOTE: ** Percentages are held as proprietary information.
 Residual vinyl chloride monomers have not been detected by industrial hygiene monitoring during the manufacturing process.

DATE PREPARED: 11/18/94

701750

MATERIAL SAFETY DATA SHEET

O'SULLIVAN PLASTICS CORPORATION:
 1944 VALLEY AVE.
 WINCHESTER, VA 22601

1507 WILLOW ST.
 LEBANON, PA 17045

REGALITE PLASTICS:
 300 NEEDHAM ST.
 NEWTON UPPER FALLS, MA 02164

270 N. HIGHWAY 95A
 YERINGTON, NV 89447

EMERGENCY NUMBERS:

O'SULLIVAN CORP: (703) 667-6666 (USA)
 CHEM-TEL INC: 1-800-255-3924 (USA)

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: HG- Series

CHEMICAL NAME & SYNONYMS: Poly (Vinyl Chloride), PVC, Vinyl
TRADE NAMES & SYNONYM: Sheet Vinyl - Color and Thickness Vary

CHEMICAL FAMILY: Vinyl Resin - **FORMULA:** CH₂CHCl_n & FUNCTIONAL
 ADDITIVES

SECTION II - COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	% BY WEIGHT	CAS #
PIGMENTS	0 - 5 %	
PVC RESIN	**	9002-86-2
CALCIUM CARBONATE	**	4471-34-1
STABILIZERS	**	
PLASTICIZERS	**	
EPOXIDIZED SOYBEAN OIL	**	8013-07-8

NOTE: Due to the introduction of recycled material, only added ingredients can be accurately calculated

SARA 313 HAZARDOUS INGREDIENTS

CHEMICAL NAME	% BY WEIGHT	CAS #
BARIUM SALTS (AS Ba COMPOUNDS)	< 0.20 %	
ZINC SALTS (AS Zn COMPOUNDS)	< 0.10 %	
CONEG METALS (Cd, Cr, Pb, Hg)	vary with color 0-100 PPM	
DI(2-ETHYLHEXYL) PHTHALATE	< 22 %	117-81-7

NOTE: ** Percentages are held as proprietary information.
 Residual vinyl chloride monomers have not been detected by industrial hygiene monitoring during the manufacturing process.

DATE PREPARED: 9/8/94

MATERIAL SAFETY DATA SHEET

O'SULLIVAN PLASTICS CORPORATION:
1944 VALLEY AVE.
WINCHESTER, VA 22601

1507 WILLOW ST.
LEBANON, PA 17045

REGALITE PLASTICS:
300 NEEDHAM ST.
NEWTON UPPER FALLS, MA 02164

270 N. HIGHWAY 95A
YERINGTON, NV 89447

EMERGENCY NUMBERS:

O'SULLIVAN CORP: (703) 667-6666 (USA)
CHEM-TEL INC: 1-800-255-3924 (USA)

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: HM-Series

CHEMICAL NAME & SYNONYMS: Poly (Vinyl Chloride), PVC, Vinyl
TRADE NAMES & SYNONYM: Sheet Vinyl - Color and Thickness Vary

CHEMICAL FAMILY: Vinyl Resin - FORMULA: $(CH_2CHCl)_n$ & FUNCTIONAL ADDITIVES

SECTION II - COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	% BY WEIGHT	CAS #
PIGMENTS	0 - 5%	
PVC RESIN	**	9002-86-2
CALCIUM CARBONATE	**	4471-34-1
STABILIZERS	**	
PLASTICIZERS	**	
EPOXIDIZED SOYBEAN OIL	**	3013-07-8

SARA 313 HAZARDOUS INGREDIENTS

CHEMICAL NAME	% BY WEIGHT	CAS #
BARIUM SALTS (AS Ba COMPOUNDS)	< 0.20 %	
ZINC SALTS (AS Zn COMPOUNDS)	< 0.10 %	
TOXIC METALS (Cd, Cr, Pb, Hg)	(vary with color) > 600 ppm	
DI(2-ETHYLHEXYL) PHTHALATE	< 34.0 %	117-81-7

NOTE: ** Percentages are held as proprietary information.
Residual vinyl chloride monomers have not been detected by industrial hygiene monitoring during the manufacturing process.

DATE PREPARED: 9/8/94

701752

MATERIAL SAFETY DATA SHEET

O'SULLIVAN PLASTICS CORPORATION:
1944 VALLEY AVE.
WINCHESTER, VA 22601

1507 WILLOW ST.
LEBANON, PA 17045

REGALITE PLASTICS:
300 NEEDHAM ST.
NEWTON UPPER FALLS, MA 02164

270 N. HIGHWAY 95A
YERINGTON, NV 89447

EMERGENCY NUMBERS:

O'SULLIVAN CORP: (703) 667-6666 (USA)
CHEM-TEL INC: 1-800-255-3924 (USA)

SECTION I - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: HN-Series

CHEMICAL NAME & SYNONYMS: Poly (Vinyl Chloride), PVC, Vinyl
TRADE NAMES & SYNONYM: Sheet Vinyl - Color and Thickness Vary

CHEMICAL FAMILY: Vinyl Resin - FORMULA: (CH₂CHCL)_n & FUNCTIONAL ADDITIVES

SECTION II - COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	% BY WEIGHT	CAS #
PIGMENTS	0 - 5%	
PVC RESIN	**	9002-86-2
CALCIUM CARBONATE	**	4471-34-1
STABILIZERS	**	
PLASTICIZERS	**	
EPOXIDIZED SOYBEAN OIL	**	8013-07-8

NOTE: Due to the introduction of recycled material, only added ingredients can be accurately calculated

SARA 313 HAZARDOUS INGREDIENTS

CHEMICAL NAME	% BY WEIGHT	CAS #
BARIUM SALTS (AS Ba COMPOUNDS)	< 0.40 %	
ZINC SALTS (AS Zn COMPOUNDS)	< 0.15 %	
CONEG METALS (Cd, Cr, Pb, Hg)	(vary with color) 101-250 ppm	

NOTE: ** Percentages are held as proprietary information.
Residual vinyl chloride monomers have not been detected by industrial hygiene monitoring during the manufacturing process.

DATE PREPARED: 9/23/94

701753

MATERIAL SAFETY DATA SHEET

O'SULLIVAN PLASTICS CORPORATION:
 1944 VALLEY AVE.
 WINCHESTER, VA 22601

1507 WILLOW ST.
 LEBANON, PA 17045

REGALITE PLASTICS:
 300 NEEDHAM ST.
 NEWTON UPPER FALLS, MA 02164

270 N. HIGHWAY 95A
 HERINGTON, NV 89447

EMERGENCY NUMBERS:

O'SULLIVAN CORP: (703) 667-6666 (USA)
CHEM-TEL INC: 1-800-255-3924 (USA)

SECTION I - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: HN-Series

CHEMICAL NAME & SYNONYMS: Poly (Vinyl Chloride), PVC, Vinyl
TRADE NAMES & SYNONYM: Sheet Vinyl - Color and Thickness Vary

CHEMICAL FAMILY: Vinyl Resin - **FORMULA:** (CH₂CHCl)_n & FUNCTIONAL ADDITIVES

SECTION II - COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	% BY WEIGHT	CAS #
PIGMENTS	0 - 5%	
PVC RESIN	**	9002-86-2
CALCIUM CARBONATE	**	4471-34-1
STABILIZERS	**	
PLASTICIZERS	**	
EPOXIDIZED SOYBEAN OIL	**	8013-07-8

NOTE: Due to the introduction of recycled material, only added ingredients can be accurately calculated

SARA 313 HAZARDOUS INGREDIENTS

CHEMICAL NAME	% BY WEIGHT	CAS #
BARIUM SALTS (AS Ba COMPOUNDS)	< 0.40 %	
ZINC SALTS (AS Zn COMPOUNDS)	< 0.15 %	
COBALT METALS (Cd, Cr, Pb, Hg)	(vary with color) 101-250 ppm	

NOTE: ** Percentages are held as proprietary information.
 Residual vinyl chloride monomers have not been detected by industrial hygiene monitoring during the manufacturing process.

DATE PREPARED: 9/23/94

701754

MATERIAL SAFETY DATA SHEET

O'SULLIVAN PLASTICS CORPORATION:
1944 VALLEY AVE.
WINCHESTER, VA 22601

1507 WILLOW ST.
LEBANON, PA 17045

REGALITE PLASTICS:
300 NEEDHAM ST.
NEWTON UPPER FALLS, MA 02164

270 N. HIGHWAY 95A
YERINGTON, NV 89447

EMERGENCY NUMBERS:

O'SULLIVAN CORP: (703) 667-6666 (USA)
CHEM-TEL INC: 1-800-255-3924 (USA)

SECTION I - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: HY- Series

CHEMICAL NAME & SYNONYMS: Poly (Vinyl Chloride), PVC, Vinyl
TRADE NAMES & SYNONYM: Sheet Vinyl - Color and Thickness Vary

CHEMICAL FAMILY: Vinyl Resin - FORMULA: $(CH_2CHCl)_n$ & FUNCTIONAL ADDITIVES

SECTION II - COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	% BY WEIGHT	CAS #
PIGMENTS	0 - 5%	
PVC RESIN	**	3002-86-2
CALCIUM CARBONATE	**	471-34-1
STABILIZERS	**	
PLASTICIZERS	**	
EPOXIDIZED SOYBEAN OIL	**	3013-07-8

NOTE: Due to the introduction of recycled material, only added ingredients can be accurately calculated

SARA 313 HAZARDOUS INGREDIENTS

CHEMICAL NAME	% BY WEIGHT	CAS #
BARIIUM SALTS (AS Ba COMPOUNDS)	< 4.20 %	
ZINC SALTS (AS Zn COMPOUNDS)	< 1.40 %	
COBALT METALS (Cd, Cr, Pb, Hg) (vary with color)	> 600 PPM	
DI(2-ETHYLHEXYL) PHTHALATE	< 38 %	17-81-7

NOTE: ** Percentages are held as proprietary information.
Residual vinyl chloride monomers have not been detected by industrial hygiene monitoring during the manufacturing process.

DATE PREPARED: 10/14/94

701755

MATERIAL SAFETY DATA SHEET

O'SULLIVAN PLASTICS CORPORATION:
1944 VALLEY AVE.
WINCHESTER, VA 22601

1507 WILLOW ST.
LEBANON, PA 17045

REGALITE PLASTICS:
300 NEEDHAM ST.
NEWTON UPPER FALLS, MA 02164

270 N. HIGHWAY 95A
YERINGTON, NV 89447

EMERGENCY NUMBERS:

O'SULLIVAN CORP: (703) 667-6666 (USA)
CHEM-TEL INC: 1-800-255-3924 (USA)

SECTION I - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: HS-Series

CHEMICAL NAME & SYNONYMS: Poly (Vinyl Chloride), PVC, Vinyl
TRADE NAMES & SYNONYM: Sheet Vinyl - Color and Thickness Vary

CHEMICAL FAMILY: Vinyl Resin - FORMULA: CH_2CHCl_n & FUNCTIONAL ADDITIVES

SECTION II - COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	% BY WEIGHT	CAS #
PIGMENTS	0 - 5%	
PVC RESIN	**	9002-86-2
CALCIUM CARBONATE	**	4471-34-1
STABILIZERS	**	
PLASTICIZERS	**	
EPOXIDIZED SOYBEAN OIL	**	3013-07-8

NOTE: Due to the introduction of recycled material, only added ingredients can be accurately calculated

SARA 313 HAZARDOUS INGREDIENTS

CHEMICAL NAME	% BY WEIGHT	CAS #
BARIUM SALTS (AS Ba COMPOUNDS)	< 0.15 %	
ZINC SALTS (AS Zn COMPOUNDS)	< 0.05 %	
CONEG METALS (Cd, Cr, Pb, Hg)	vary with color > 600 ppm	

NOTE: ** Percentages are held as proprietary information.
Residual vinyl chloride monomers have not been detected by industrial hygiene monitoring during the manufacturing process.

DATE PREPARED: 9/9/94

701756

Solder

7657A1, A2, A3

7667A1, 12, 14, 15, 21, 22, 25, 26

MATERIAL SAFETY DATA SHEET

7663A1, 12, 14, 17



AMES METAL PRODUCTS CO.

Complies with OSHA Hazard Communication Standard 29CFR 1910.1200

PRODUCT: TIN/LEAD SOLDER ALLOY (FABRICATIONS/FORMS)

NO: 73

COMMON NAME OR SYNONYMS: Tin/Lead formulation, Tin/Lead/Bismuth formulation and Tin/Lead/Silver formulation (where customer specifications call for less than 1% Silver) solders or alloys in the following forms: wire, ingot, pig, sheet, cake, rod, tubing, anodes, cast or extruded and ribbon. Includes trade name products.

SECTION I

MANUFACTURERS NAME: AMES METAL PRODUCTS CO.
4323 South Western Boulevard
Chicago, Illinois 60609
Phone 312-523-3230
FAX 312-523-3854

INFORMATION PHONE: Toll Free/Outside IL
EMERGENCY PHONE: 1-800-255-6937 - CHEMTREC: 800-424-9300
PREPARATION DATE: April 1991

SECTION II — HAZARDOUS INGREDIENTS

INGREDIENT	CAS NO.	OSHA PEL	ACGIH TLV	OTHER	WT. PERCENT
Lead	7439-92-1	0.05 mg/m ³	0.15 mg/m ³	---	1.5 - 98.5
Tin	7440-31-5	2.0 mg/m ³	2.0 mg/m ³	---	1.5 - 98.5

Additional Information: OSHA Action Level for Lead 0.03 mg/m³ (See 29CFR 1910.1025).

Note: Product formulation is to customer specification.

SECTION III — PHYSICAL DATA

APPEARANCE & ODOR (At Normal Conditions): Solid — Silver Metallic to Gray Metallic Metal — No Odor.
SPECIFIC GRAVITY (H₂O = 1): 5.83 - 11.27
MELTING POINT (DEGREES C): Lead - 328 Tin - 232
BOILING POINT (DEGREES C): Lead - 1744 Tin - 2260
SOLUBILITY IN WATER: Insoluble
EVAPORATION RATE (BUTYL ACETATE = 1): Not Applicable
VAPOR DENSITY (AIR = 1): Not Applicable
VAPOR PRESSURE (mmHg): Not Applicable
PH: Not Applicable

SECTION IV — FIRE & EXPLOSION HAZARD DATA

FLASH POINT: Non-Flammable
FLAMMABLE LIMITS: Not Applicable
EXTINGUISHING MEDIA: No specific agents recommended
SPECIAL FIRE FIGHTING PROCEDURES: If involved in fire, use full protective clothing and NIOSH/MSHA approved self-contained breathing apparatus operated in a positive-pressure mode.
UNUSUAL FIRE & EXPLOSION HAZARDS: None

SECTION V — REACTIVITY DATA

STABILITY: Stable
CONDITIONS TO AVOID: Not Applicable
INCOMPATIBILITY: Strong Oxidizers, Hydrogen Peroxide, Chlorine, Turpentine, Active Metals - Sodium, Potassium. Powdered lead fused with ammonium nitrate may cause a violent reaction.
HAZARDOUS DECOMPOSITION PRODUCTS: At temperatures above the melting point metal oxide fumes may be evolved.