

## 334 MATERIAL SAFETY DATA SHEET \*\*\*

date of prep : 09/24/96 32063 (page 1) 

PERTION I

address

manufacturer : C.E. BRADLEY LABORATORIES, INC.

: P.O. BOX 8238

N. BRATTLEBORO, VT 05304

RICHARD S. CARLSON, CHIEF CHEMIST

talephone# : (802) 257-7971 emergency# : (802) 257-7971

-HMIS-

HEALTH : FLAMMABILITY : 3 |

:1 :

: REACTIVITY

: PERSONAL PROTECT.: H :

product class: FOO mfq. code id : 32063

MSDS revision# : 5

(HAZARD RATING : O=least, 1=slight, 2=moderate, 3=high, 4=extreme, \*=chronic)

(H = splash goggles, gloves, synthetic apron, & vapor respirator)

trade name : YALE BLUE TUMBLING ENAMEL .06% LEAD FREE (32063)

SECTION II-A HAZARDOUS COMPONENTS

na.	component	CAS#	% by wt.	SARA	vapor pressure (mm Hg & 20 C)	LEL (@ 25 C)
1 2 3 4	VMSP NAPHTHA TOLUENE (BENZENE, METHYL-) XYLENE MINERAL SPIRITS	8032-32-4 / ^ 108-88-34 / 1330-20-7 / 8052-41-3 / /	10 - 15 1 - 5	NO YES YES NO	5.20 24.00 6.60 3.10	1.20 1.00 1.00 0.70

<sup>&</sup>gt;> None of the components of this product are recognized as carcinogenic.

<sup>&</sup>gt;> Under the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR Part 372, chemicals listed on the Section 343 List (40 CFR Part 373.65) are identified under the heading "SARA

SECTION II-B OCCUPATIONAL EXPOSURE LIMITS					
no.	(OSHA)	PEL/TNA	PEL/CEILING	PEL/STEL	skin
	300 ppm		N/E	400 ppm	N/E
2	100 орт		N/E	150 ppm	N/E
3	100 ppa		N/E	150 ppm	N/E
ô,	100 ррт		N/E	N/E	N/E
no.	(ACGIH)	TLV/THA	TLV/CEILING	TLV/STEL	skin
1	300 ppm		N/E	4GO ppm	N/E
2	100 ррп:		N/E	150 ppm	N/E
3	100 ppm		₩E	150 ppm	N/E
e,	100 ppm		₩/E	200 ppm	N/E
<b>&gt;&gt;</b> 7	he dried	film of this prod	uct may become a dust nuisance when remo	oved by sanding, blasting or grinding.	

#### SECTION III PHYSICAL DATA

boiling point : not established % volatile by volume : 58.45 +/- 2% evaporation rate : <1 (ether = 1) % volatile by weight : 48.74 +/- 2% vapor density : >1 (air = 1) weight per gallon : 7.97 +/- .2

3.8852 VBC (w/H20) : 3.8844

<sup>&</sup>gt;> (SKIN) absorption may contribute to the overall exposure to this material. Take appropriate measures to prevent skin contact. (N/E = not established)



VI MOLTATO

### HEALTH INFORMATION

EYE CONTACT

BASED ON THE PRESENCE OF COMPONENTS 1, 2, 3 AND 4 PRODUCT IS PRESUMED TO BE MODERATELY IRRITATING TO THE EYES. EXPOSURE MAY CAUSE CORNEAL INJURY. BASED ON THE PRESENCE OF COMPONENTS 1, 2, 3 AND 4 PRODUCT VAPORS MAY ALSO BE IRRITATING TO THE EYES.

### SKIN CONTACT

BASED ON THE PRESENCE OF COMPONENTS 2 AND 3 PRODUCT IS PRESUMED TO BE MODERATELY IRRITATING TO THE SKIN. PROLONGED CONTACT MAY CAUSE DAMAGE TO THIE SKIN. BASED ON THE PRESENCE OF COMPONENTS 1, 2, 3 AND 4 PROLONGED OR REPEATED CONTACT MAY RESULT IN DEFATTING AND DRYING OF THE SKIN WHICH MAY RESULT IN DEFMATITIS.

### INHALATION

EXPOSURE MAY PRODUCE IRRITATION TO THE NOSE, THROAT, RESPIRATORY TRACT, AND OTHER MUCCUS MEMBRANES. BASED ON THE PRESENCE OF COMPONENTS 2 AND 3 EXPOSURE TO HIGH CONCENTRATIONS OF VAPOR MAY PRODUCE CNS DEPRESSION.

### INGESTION

BASED ON THE PRESENCE OF COMPONENTS 2 AND 3 PRODUCT IS PRESUMED TO BE SLIGHTLY TOXIC. BASED ON THE PRESENCE OF COMPONENTS 1, 2, 3 AND 4 SMALL AMOUNTS OF THE LIQUID ASPIRATED INTO THE LUNGS DURING INGESTION OR FROM VOMITING MAY RESULT IN SEVERE LUNG DAMAGE.

### SIGNS AND SYMPTOMS

SYMPTOMS OF EYE IRRITATION INCLUDE PAIN, TEARING, REDDENING AND SWELLING. SYMPTOMS OF SKIN IRRITATION INCLUDE REDDENING, SWELLING, RASH AND REDNESS. SYMPTOMS OF RESPIRATORY IRRITATION INCLUDE RUNNY MOSE, SORE THROAT, COUGHING, CHEST DISCOMFORT, SHORTNESS OF BREATH AND REDUCED LUNG FUNCTION. SYMPTOMS OR GASTROINTESTIONAL IRRITATION INCLUDE SORE THROAT, ABDOMINAL PAIN, NAUSEA, VONITING AND DIARRHEA. BASED ON THE PRESENCE OF COMPONENTS 1, 2, 3 AND 4 CENTRAL NERVOUS SYSTEM DEPRESSION MAY BE EVIDENCED BY MEADACHE, DIZZINESS, NAUSEA AND SYMPTOMS OF INTOXICATION; IN EXTREME CASES, UNCONSCIOUSNESS AND DEATH MAY OCCUR.

### GRAVATED MEDICAL CONDITIONS

HAZZISTING SKIN, EYE AND RESPIRATORY DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT. IMPAIRED LIVER FUNCTIONS FROM PREEXISTING DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT. BASED ON THE PRESENCE OF COMPONENTS 1 AND 4 PREEXISTING SKIN OR LUNG ALLERGIES MAY INCREASE THE CHANCE OF DEVELOPING INCREASED ALLERGY SYMPTOMS FROM EXPOSURE TO THIS PRODUCT.

### OTHER HEALTH EFFECTS

NONE RECOGNIZED.

SECTION V

# EMERGENCY AND FIRST AID PROCEDURES

# EYE CONTACT

IMMEDIATELY FLUSH EYES WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES WHILE HOLDING EYELIDS OFEN. SEEK PROMPT MEDICAL ATTENTION.

### SKIN CONTACT

EMMEDIATELY REMOVE CONTAMINATED CLOTHING AND SHOES, WIPE EXCESS FROM SKIN AND FLUSH NITH NATER FOR AT LEAST 15 MINUTES USING SOAP IF AVAILABLE, SEEK PROMPT MEDICAL ATTENTION, DO NOT REUSE CLOTHING UNTIL THOROUGHLY DECONTAMINATED.

# INHALATION

REMOVE VICTIM TO FRESH AIR AND TREAT SYMPTOMATICALLY. PROVIDE DXYGEN IF BREATHING IS DIFFICULT. GIVE ARTIFICIAL RESPIRATION IF THE VICTIM IS NOT BREATHING. SEEK PROMPT MEDICAL ATTENTION.

### INCESTION

DO NOT INDUCE VONITING. IF VOMITING SPONTANEOUSLY OCCURS, KEEP THE VICTIM'S HEAD BELON THE HIPS TO PREVENT ASPIRATION INTO THE LUNGS. SINCE ASPIRATION INTO THE LUNGS CAN CAUSE VERY SERIOUS, PERMANENT DAMAGE, THE DECISION OF WHETHER TO INDUCE VOMITING OR MOST SHOULD BE MADE BY A PHYSICIAN. DANGER FROM LUNG ASPIRATION MUST BE WEIGHED AGAINST TOXICITY WHEN CONSIDERING EMPTYING THE ACH. CONSULT A PHYSICIAN, HOSPITAL OR POISON CONTROL CENTER AND/OR TRANSPORT TO AN EMERGENCY FACILITY IMMEDIATELY.

BLUE

IV WOLTON

-:

### FIRE AND EXPLOSION HAZARDS

flammability classification - OSHA: FLAMMABLE LIGUID - CLASS IB

- DOT : FLAMMABLE LIQUID PACKING GROUP II

flash point : 45 F TCC

EXTINGUISHING MEDIA

USE WATER FOG, FOAM, DRY CHEMICAL OR CARBON DIOXIDE.

SPECIAL FIRE FIGHTING PROCEDURES AND PRECAUTIONS

WARNING, FLANMABLE, CLEAR FIRE AREA OF UNPROTECTED PERSONNEL, DO NOT ENTER CONFINED FIRE SPACE WITHOUT HELMET, FACE SMIELD, BUNKER COAT, GLOVES, RUBBER BOOTS, AND A POSITIVE PRESSURE NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS.

### UNUSUAL FIRE AND EXPLOSION HAZARDS

CONTAINER EXPOSED TO INTENSE HEAT FROM FIRES SHOULD BE COOLED WITH WATER TO PREVENT VAPOR PRESSURE BUILDUP WHICH COULD RESULT IN CONTAINER RUPTURE. CONTAINER AREAS EXPOSED TO DIRECT FLAME CONTACT SHOULD BE COOLED WITH LARGE QUANTITIES OF WATER AS NEEDED TO PREVENT WEAKENING OF CONTAINER STRUCTURE. GROUND CONTAINERS WHILE POURING AND LIMIT FREE FALL TO A FEW INCHES TO PREVENT STATIC SPARKS. AVOID SPONTANEOUS COMBUSTION OF CONTAMINTED RAGS AND OTHER EASILY IGNITABLE ORGANIC ACCUMULATIONS (SUCH AS SPRAY BOOTH RESIDUES) BY IMMEDIATE IMMERSION IN WATER.

SECTION VII

REACTIVITY

STABILITY : STABLE

HAZARDOUS POLYMERIZATION : WILL NOT OCCUR

CONDITIONS AND MATERIALS TO AVOID

BASED ON THE PRESENCE OF COMPONENTS 1, 2, 3 AND 4 AVOID OXIDIZING MATERIALS.

TAZARDOUS DECOMPOSITION PRODUCTS

CARBON DIOXIDE, CARBON MONOXIDE AND UNIDENTIFIED ORGANIC COMPOUNDS MAY BE FORMED DURING COMBUSTION.

SECTION VIII

### EMPLOYEE PROTECTION

RESPIRATORY PROTECTION

AVOID PROLONGED OR REPEATED BREATHING OF VAPORS. IF EXPOSURE EXCEEDS TLV USE A NIOSH-APPROVED RESPIRATOR TO PREVENT OVEREXPOSURE.

PROTECTIVE CLOTHING

AVOID CONTACT WITH EYES. WEAR GOGGLES IF THERE IS A LIKELIHOOD OF CONTACT WITH EYES. DO NOT GET ON SKIN OR ON CLOTHING.

ADDITIONAL PROTECTIVE MEASURES

USE VENTILATION AS REQUIRED TO CONTROL VAPOR CONCENTRATIONS. EYE WASH FOUNTAINS AND SAFETY SHOWERS SHOULD BE AVAILABLE FOR USE IN AN EMERGENCY.

SECTION IX

# ENVIRONMENTAL PROTECTION

# SPILL OR LEAK PROCEDURES

LARGE SPILLS >> EVACUATE THE HAZARD AREA OF UNPROTECTED PERSONNEL. WEAR APPROPRIATE RESPIRATOR AND PROTECTIVE CLOTHING. SHUT OFF SOURCE OF LEAK ONLY IF SAFE TO OD SO. DIKE AND CONTAIN. IF VAPOR CLOUD FORMS, WATER FOG MAY BE USED TO SUPPRESS; CONTAIN RUN-OFF. REMOVE WITH VACUUM TRUCKS OR PUMP TO STORAGE/SALVAGE VESSELS. SOAK UP RESIDUE WITH AN ABSORBENT SUCH AS CLAY, SAND OR OTHER SUITABLE MATERIAL; PLACE IN NON-LEAKING CONTAINERS FOR PROPER DISPOSAL. FLUSH AREA WITH WATER TO REMOVE TRACE RESIDUE; DISPOSE OF FLUSH SOLUTIONS AS ABOVE. SMALL SPILLS >> TAKE UP WITH AN ABSORBENT MATERIAL AND PLACE IN NON-LEAKING CONTAINERS; SEAL TIGHTLY FOR PROPER DISPOSAL.

STE DISPOSAL

REFER TO LATEST EPA OR STATE REGULATIONS REGARDING PROPER DISPOSAL.



COLTION X

### ADDITIONAL PRECAUTIONS

KEEP LIGUID AND VAPOR AWAY FROM HEAT, SPARKS, AND FLAME. EXTINGUISH PILOT LIGHTS, CIGARETTES AND TURN OFF OTHER POSSIBLE SOURCES OF IGNITION PRIOR TO USE AND UNTIL VAPORS ARE GONE. SURFACES THAT ARE SUFFICIENTLY HOT MAY IGNITE PRODUCT IN THE ABSENCE OF SPARKS OR FLAME. VAPORS KAY ACCUMULATE AND TRAVEL TO IGNITION SOURCES DISTANT FROM HANDLING SITE.

CONTAINERS CAN CONTAIN HAZARDOUS PRODUCT RESIDUES EVEN WHEN EMPTY. WASH WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING, OR USING TOILET FACILITIES. KEEP CONTAINERS CLOSED WHEN NOT IN USE. USE WITH ADEQUATE VENTILLATION. CONTAINER, EVEN IF EMPTY, CAN CONTAIN EXPLOSIVE VAPORS. DO NOT CUT, DRILL, GRIND, OR WELD NEAR CONTAINERS.

THE DATA SET FORTH IN THIS SHEET ARE BASED ON INFORMATION PROVIDED BY THE SUPPLIERS OF THE RAW MATERIALS AND CHEMICALS USED IN THE MANUFACTURE OF THE AFFOREMENTIONED PRODUCT. C.E. BRADLEY MAKES NO MARRANTY, EXPRESS OR IMPLIED WITH RESPECT TO THE ACCURACY OF THE INFORMATION PROVIDED BY THEIR SUPPLIERS, AND DISCLAIMS ALL LIABILITY OF RELIANCE THEREOF. C.E. BRADLEY LABORATORIES, INC. MARRANTS DNLY THAT ITS PRODUCTS CONFORM WITH THEIR PUBLISHED SPECIFICATIONS, AND NO OTHER EXPRESS MARRANTY IS MADE WITH REGARD THERETO. WE NO NOT GUARANTEE FAVORABLE RESULTS AND WE ASSUME NO LIABILITY IN CONNECTION WITH THE USE OF THE PRODUCTS. THEY ARE INTENDED FOR USE BY PERSONS HAVING TECHNICAL SKILL AND KNOWLEDGE, AT THEIR OWN DISCRETION AND RISK.

\*\*\* MATERIAL SAFETY DATA SHEET \*\*\*

: 1

: 3

SECTION I

date of prep : 09/24/96

mamufacturer : C.E. BRADLEY LABORATORIES, INC.

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N. BRATTLEBORD, VT 05304

RICHARD S. CARLSON, CHIEF CHEMIST

telephone# : (802) 257-7971 emergency# : (802) 257-7971 -HMIS-

HEALTH

: FLAMMABILITY

: REACTIVITY

: 1 : PERSONAL PROTECT.: H :

product class: FOO mfg. code id : 27783

SECTION II-A

MSDS revision# : 5

(HAZARD RATING : 0=least, 1=slight, 2=moderate, 3=high, 4=extreme, \*=chromic)

(H = splash goggles, gloves, synthetic apron, & vapor respirator)

trade name : CLEAR HOT STAMPING VARNISH (27783) 

# HAZARDOUS COMPONENTS

					<del></del>	<del></del>
no.	component	CAS#	X by wt.	SARA	vapor pressure (mm Hg a 20 C)	LEL. (& 25 C)
1 2 3 4	MINERAL SPIRITS RESIDVAL S-100 XYLENE VM&P NAPHTHA	8052-41-3 2 N/A 1330-20-7 8032-32-4	1 - 5 1 - 5	NO NO YES NO	3.10 N/A 6.60 5.20	0.70 N/A 1.00 1.20

>> None of the components of this product are recognized as carcinogenic.

>> Under the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR Part 372, chemicals listed on the Section 313 List (40 CFR Part 373.65) are identified under the heading 'SARA

(N/A = not applicable)

SECTION II-B OCCUPATIONAL EXPOSURE LIMITS				
ISHA) PEL/TIKA	PEL/CEILING	PEL/STEL	skin	
) ppm	N/E	N/E	N/E	
	N/E	N/E	N/E	
) թթո	N/E	150 ppm	N/E	
pone .	N/E	400 рра	N/E	
CGIH) TLV/TWA	TLV/CEIL ING	TLV/STEL	skin	
bos	N/E	200 րթո	N/E	
	N/E	N/E	N/E	
ុំ ទី០២	N/E	150 ppm	N/E	
) ppan	N/E	400 ppa	N/E	
	ppm ppm ppm CGIH) TLV/TWA ppm ppm	ppm   N/E   N/E   N/E   Ppm   Ppm	ppm         N/E         N/E           N/E         N/E         N/E           ppm         N/E         150 ppm           ppm         N/E         400 ppm           CGIH) TLV/TWA         TLV/CEILING         TLV/STEL           ppm         N/E         200 ppm           N/E         N/E         N/E           ppm         N/E         150 ppm	

>> (SKIN) absorption may contribute to the overall exposure to this material. Take appropriate measures to prevent skin contact. (N/E = not established)

PHYSICAL DATA

SECTION III

boiling point : not established

evaporation rate : (1 (ether = 1)

/apor density : >1 (air = 1)

1/00 : 3,9672

% volatile by volume : 61.72 +/- 2% % volatile by weight : 53.18 +/- 2%

weight per gallon : 7.46 +/- .2

VOC (w/H20)

: 3.9672



SECTION IV

# HEALTH INFORMATION

### YE CONTACT

BASED ON THE PRESENCE OF COMPONENTS 1, 3 AND 4 PRODUCT IS PRESUMED TO BE MCDERATELY IRRITATING TO THE EYES. EXPOSURE MAY CAUSE CORNEAL INJURY. BASED ON THE PRESENCE OF COMPONENTS 1, 3 AND 4 PRODUCT VAPORS MAY ALSO BE IRRITATING TO THE EYES.

# SKIN CONTACT

SASED ON THE PRESENCE OF COMPONENT 3 PRODUCT IS PRESUMED TO BE MODERATELY IRRITATING TO THE SKIN. PROLONGED CONTACT MAY CAUSE DAMAGE TO THIE SKIN. BASED ON THE PRESENCE OF COMPONENTS 1, 3 AND 4 PROLONGED OR REPEATED CONTACT MAY RESULT IN DEFATTING AND DRYING OF THE SKIN WHICH MAY RESULT IN DEFATTING.

#### INHALATION

EXPOSURE MAY PRODUCE IRRITATION TO THE MOSE, THROAT, RESPIRATORY TRACT, AND OTHER MUCOUS MEMBRANES. BASED ON THE PRESENCE OF COMPONENT 3 EXPOSURE TO HIGH CONCENTRATIONS OF VAPOR MAY PRODUCE CNS DEPRESSION.

### INGESTION

BASED ON THE PRESENCE OF COMPONENT 3 PRODUCT IS PRESUMED TO BE SLIGHTLY TOXIC. BASED ON THE PRESENCE OF COMPONENTS 1, 3 AND 4 SMALL AROUNTS OF THE LIQUID ASPIRATED INTO THE LUNGS DURING INGESTION OF FROM VOMITING MAY RESULT IN SEVERE LUNG DAMAGE.

### SIGNS AND SYMPTOMS

SYMPTOMS OF EYE IRRITATION INCLUDE PAIN, TEARING, REDDENING AND SWELLING. SYMPTOMS OF SKIN IRRITATION INCLUDE REDDENING, SWELLING, RASH AND REDNESS. SYMPTOMS OF RESPIRATORY IRRITATION INCLUDE RUNNY MOSE, SORE THROAT, CONGHING, CHEST DISCOMFORT, SHORTNESS OF BREATH AND REDUCED LUNG FUNCTION. SYMPTOMS OR GASTROINTESTIONAL IRRITATION INCLUDE SORE THROAT, ABDOMINAL PAIN, NAUSEA, VONITING AND DIARRHEA. BASED ON THE PRESENCE OF COMPONENTS 1, 3 AND 4 CENTRAL NERVOUS SYSTEM DEPRESSION MAY BE EVIDENCED BY HEADACHE, DIZZINESS, NAUSEA AND SYMPTOMS OF INTOXICATION; IN EXTREME CASES, UNCONSCIOUSNESS AND DEATH MAY OCCUR.

### "GGRAVATED KEDICAL CONDITIONS

EXISTING SKIN, EYE AND RESPIRATORY DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT. IMPAIRED LIVER FUNCTIONS FROM PREEXISTING DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT. BASED ON THE PRESENCE OF COMPONENTS 1 AND 4 PREEXISTING SKIN OR LUNG ALLERGIES MAY INCREASE THE CHANCE OF DEVELOPING INCREASED ALLERGY SYMPTOMS FROM EXPOSURE TO THIS PRODUCT.

### OTHER HEALTH EFFECTS

NOME RECOGNIZED.

SECTION V

# EMERGENCY AND FIRST ALD PROCEDURES

### EYE CONTACT

INMEDIATELY FLUSH EYES WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES WHILE HOLDING EYELIDS OPEN. SEEK PROMPT MEDICAL ATTENTION.

# SKIN CONTACT

IMMEDIATELY REMOVE CONTAMINATED CLOTHING AND SHOES. WIPE EXCESS FROM SKIN AND FLUSH WITH WATER FOR AT LEAST 45 MINUTES USING SDAP IF AVAILABLE. SEEK PROMPT MEDICAL ATTENTION. DO NOT REUSE CLOTHING UNTIL THOROUGHLY DECONTAMINATED.

# INHALATION

REMOVE VICTIM TO FRESH AIR AND TREAT SYMPTOMATICALLY. PROVIDE OXYGEN IF BREATHING IS DIFFICULT. GIVE ARTIFICIAL RESPIRATION IF THE VICTIM IS NOT BREATHING, SEEK PROMPT MEDICAL ATTENTION.

### INGESTION

DO NOT INDUCE VONITING. IF VONITING SPONTANEOUSLY OCCURS, KEEP THE VICTIM'S HEAD BELOW THE HIPS TO PREVENT ASPIRATION INTO THE LUNGS. SINCE ASPIRATION INTO THE LUNGS CAN CAUSE VERY SERIOUS, PERMANENT DAMAGE, THE DECISION OF WHETHER TO INDUCE VONITING OR NOT SHOULD BE MADE BY A PHYSICIAN. DANGER FROM LUNG ASPIRATION MUST BE WEIGHED AGAINST TOXICITY WHEN CONSIDERING EMPTYING THE ACH. CONSULT A PHYSICIAN, HOSPITAL OR POISON CONTROL CENTER AND/OR TRANSPORT TO AN EMERGENCY FACILITY IMMEDIATELY.



SECTION VI

# FIRE AND EXPLOSION HAZARDS

flammability classification - OSHA : COMBUSTIBLE LIGUID - CLASS II

- DOT : FLAMMABLE LIGUID PACKING GROUP II

flash point : 105 F TCC

EXTINGUISHING MEDIA

USE WATER FOG, FOAM, DRY CHEMICAL DR CARBON DIOXIDE.

SPECIAL FIRE FIGHTING PROCEDURES AND PRECAUTIONS

WARNING, COMBUSTIBLE, CLEAR FIRE AREA OF UNPROTECTED PERSONNEL, DO NOT ENTER CONFINED FIRE SPACE WITHOUT HELMET, FACE SHIELD, BUNKER COAT, GLOVES, RUBBER BOOTS, AND A POSITIVE PRESSURE NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS.

### UNUSUAL FIRE AND EXPLOSION HAZARDS

CONTAINERS EXPOSED TO INTENSE HEAT FROM FIRES SHOULD BE COOLED WITH WATER TO PREVENT VAPOR PRESSURE BUILDUP WHICH COULD RESULT IN CONTAINER RUPTURE. CONTAINER AREAS EXPOSED TO DIRECT FLAME CONTACT SHOULD BE COOLED WITH LARGE QUANTITIES OF WATER AS NEEDED TO PREVENT WEAKENING OF CONTAINER STRUCTURE, GROUND CONTAINERS WHILE POURING AND LIMIT FREE FALL TO A FEW INCHES TO PREVENT STATIC SPARKS. AVOID SPONTANEOUS COMBUSTION OF CONTAMINTED RAGS AND OTHER EASILY IGNITABLE ORGANIC ACCUMULATIONS (SUCH AS SPRAY BOOTH RESIDUES) BY INMEDIATE IMMERSION IN WATER.

SECTION VII

REACTIVITY

STABILITY : STABLE

HAZARDOUS POLYMERIZATION : WILL NOT OCCUR

# 12 TO RESTRICT BUTCH SHE WITH THE CONTROL OF THE TRANSPORT OF THE TRANSP

CONDITIONS AND MATERIALS TO AVOID

BASED ON THE PRESENCE OF COMPONENTS 1. 3 AND 4 AVOID OXIDIZING MATERIALS.

AZARDOUS DECOMPOSITION PRODUCTS

CARBON DIOXIDE, CARBON MONOXIDE AND UNIDENTIFIED ORGANIC COMPOUNDS MAY BE FORMED DURING COMBUSTION.

SECTION VIII

EMPLOYEE PROTECTION

RESPIRATORY PROTECTION

AVOID PROLONGED OR REPEATED BREATHING OF VAPORS, IF EXPOSURE EXCEEDS TLV USE A NIOSH-APPROVED RESPIRATOR TO PREVENT OVEREXPOSURE.

PROTECTIVE CLOTHING

AVOID CONTACT WITH EYES. WEAR GOGGLES IF THERE IS A LIKELIHOOD OF CONTACT WITH EYES, DO NOT GET ON SKIN OR ON CLOTHING.

ADDITIONAL PROTECTIVE MEASURES

USE VENTILATION AS REQUIRED TO CONTROL VAPOR CONCENTRATIONS. EYE WASH FOUNTAINS AND SAFETY SHOWERS SHOULD BE AVAILABLE FOR USE IN AN EMERGENCY.

SECTION IX

ENVIRONMENTAL PROTECTION

SPILL OR LEAK PROCEDURES

LARGE SPILLS >> EVACUATE THE HAZARD AREA OF UNPROTECTED PERSONNEL. WEAR APPROPRIATE RESPIRATOR AND PROTECTIVE CLOTHING. SHUT OFF SOURCE OF LEAK ONLY IF SAFE TO DO SO. DIKE AND CONTAIN, IF VAPOR CLOUD FORMS, WATER FOG MAY BE USED TO SUPPRESS; CONTAIN RUN-OFF. REMOVE WITH VACUUM TRUCKS OR PUMP TO STORAGE/SALVAGE VESSELS. SOAK UP RESIDUE WITH AN ABSORBENT SUCH AS CLAY, SAND OR OTHER SUITABLE MATERIAL; PLACE IN NON-LEAKING CONTAINERS FOR PROPER DISPOSAL. FLUSH AREA WITH WATER TO REMOVE TRACE RESIDNE; DISPOSE OF FLUSH SOLUTIONS AS ABOVE. SMALL SPILLS >> TAKE UP WITH AN ABSORBENT MATERIAL AND PLACE IN NON-LEAKING CONTAINERS; SEAL TIGHTLY FOR PROPER DISPOSAL.

STE DISPOSAL

THE ER TO LATEST EPA OR STATE REGULATIONS REGARDING PROPER DISPOSAL.



SECTION X

### ADDITIONAL PRECAUTIONS

SEEP LIQUID AND VAPOR AWAY FROM HEAT, SPARKS, AND FLAME. EXTINGUISH PILOT LIGHTS, CIGARETTES AND TURN OFF OTHER POSSIBLE SOURCES OF IGNITION PRIOR TO USE AND UNTIL VAPORS ARE GONE. SURFACES THAT ARE SUFFICIENTLY HOT MAY IGNITE PRODUCT IN THE ABSENCE OF SPARKS OR FLAME. VAPORS MAY ACCUMULATE AND TRAVEL TO IGNITION SOURCES DISTANT FROM HANDLING SITE.

CONTAINERS CAN CONTAIN HAZARDOUS PRODUCT RESIDUES EVEN WHEN EMPTY. WASH WITH SOAP AND WATER BEFORE EATING, DRINKING, OR USING TOILET FACILITIES. KEEP CONTAINERS CLOSED WHEN NOT IN USE. USE WITH ADEQUATE VENTILLATION. CONTAINER, EVEN IF EMPTY, CAN CONTAIN EXPLOSIVE VAPORS. DO NOT CUT, DRILL, GRIND, OR WELD NEAR CONTAINERS.

THE DATA SET FORTH IN THIS SHEET ARE BASED ON INFORMATION PROVIDED BY THE SUPPLIERS OF THE RAW MATERIALS AND CHEMICALS USED IN THE MANUFACTURE OF THE AFFOREMENTIONED PRODUCT. C.E.BRADLEY MAKES NO WARRANTY, EXPRESS OR IMPLIED WITH RESPECT TO THE ACCURACY OF THE INFORMATION PROVIDED BY THEIR SUPPLIERS, AND DISCLAIMS ALL LIABILITY OF RELIANCE THEREOF. C.E.BRADLEY LABORATORIES, INC. WARRANTS ONLY THAT ITS PRODUCTS CONFORM WITH THEIR PUBLISHED SPECIFICATIONS, AND NO OTHER EXPRESS WARRANTY IS MADE WITH REGARD THERETO. WE DO NOT GUARANTEE FAVORABLE RESULTS AND WE ASSUME NO LIABILITY IN CONNECTION WITH THE USE OF THE PRODUCTS. THEY ARE INTENDED FOR USE BY PERSONS HAVING TECHNICAL SKILL AND KNOWLEDGE, AT THEIR OWN DISCRETION AND RISK.

19826 (page 1)

SLOW I

manufacturer : C.E. BRADLEY LABORATURIES, INC.

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RICHARD S. CARLSON, CHIEF CHEMIST

telephone# : (802) 257-7971

ยลย*ะงู*ยก**ะ**y#ี : (802) 257-7971

- H H I S -

HEALTH : 1 ; 3

: FLAMMABILITY

REACTIVITY : 1

: PERSONAL PROTECT.: H

produci class: FOO

SECTION II-A

arig. code id : 19826

MSDS revision# : 5

(MAIARD RATING : O=least, 4=slight, 2=moderate, 3=high, 4=extreme, \*=chronic)

(H = splash goggles, gloves, synthetic apron, & vapor respirator)

trade name : 19826 RED TRYELING ENAMEL (8F107A)

HAZARDOUS COMPONENTS

ñ0.	component	CAS#	Σ by wt.	SARA	vapor pressure (mm Hg & 20 C)	£EL (@ 25 C)
1	VHSP NAPHTHA	8032-32-4 🗸	15 - 20	NO	5.20	1.20
2	TOLUENE (BENZENE, METHYL-)	108-88-3-	5 - 10	YES	24.00	1.00
3	XXLEVE	1330-20-7	1 - 5	YES	6.60	1.00
축	MINERAL SPIRITS	8052-41-3	15 - 20	ND	3.10	0.70

>> None of the components of this product are recognized as carcinogenic.

>> Under the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR Part 372, chemicals listed on the Section 313 List (40 CFR Part 373.65) are identified under the heading 'SARA

SECT.	ECTION 11-8 OCCUPATIONAL EXPOSURE LIMITS					
ic.	(05 <del>1/</del> A)	PEL/TWA	PEL/CEILING	PEL/STEL	skin	
- <b>-</b>	300 ppm		N/E	400 ppm	N/E	
2	100 ppm		N/E	150 ppm	N/E	
ì	100 ppm		N/E	\$50 ppm	N/E	
÷	100 ppm		N/E	N/E	N/E	
lü.	(ACGIH)	TLV/TWA	TLV/CEILING	TLV/STEL	skin	
	300 ppm		N/E	400 ppm	N/E	
2	100 ppm		· N/E	150 ppm	WE	
}	100 apra		N/E	150 pom	N/E	
	100 ppm		N/E	200 ppm	N/E	

>> (SKIN) absorption may contribute to the overall exposure to this material. Take appropriate measures to prevent skin contact. (N/E = not established)

PHYSICAL DATA SECTION III

: not established moiling point evaporation rate : (1 (ether = 1)

: >1 (air = 1) wapor density .√00 3.5926

% volatile by volume : 54.60 +/- 2% 43.92 +/- 2% % valatile by weight : weight per gallon : 8.18 +/- .2

VDC (w/H20)

: 3,5904

# TION IV

### HEALTH INFORMATION

### EYE CONTACT

BASED ON THE PRESENCE OF COMPONENTS 1, 2, 3 AND 4 PRODUCT IS PRESUMED TO BE MODERATELY IRRITATING TO THE EYES. EXPOSURE MAY CAUSE CORNEAL INJURY. BASED ON THE PRESENCE OF COMPONENTS 1, 2, 3 AND 4 PRODUCT VAPORS MAY ALSO BE IRRITATING TO THE EYES.

### SKIN CONTACT

SASED ON THE PRESENCE OF COMPONENTS 2 AND 3 PRODUCT IS PRESUMED TO BE MODERATELY IRRITATING TO THE SKIN. PROLONGED CONTACT MAY CAUSE DAMAGE TO THIE SKIN. BASED ON THE PRESENCE OF COMPONENTS 1, 2, 3 AND 4 PROLONGED OR REPEATED CONTACT MAY RESULT IN DEFATTING AND DRYING OF THE SKIN WHICH MAY RESULT IN DEFATTING AND DRYING OF THE SKIN WHICH MAY RESULT IN DEFATTING.

### INHALATION

EXPOSURE MAY PRODUCE IRRITATION TO THE NOSE, THROAT, RESPIRATORY TRACT, AND OTHER MUCOUS MEMBRANES. BASED ON THE PRESENCE OF COMPONENTS 2 AND 3 EXPOSURE TO HIGH CONCENTRATIONS OF VAPOR MAY PRODUCE CMS DEPRESSION.

#### INVESTION

BASED ON THE PRESENCE OF COMPONENTS 2 AND 3 PRODUCT IS PRESUMED TO BE SLIGHTLY TOXIC. BASED ON THE PRESENCE OF COMPONENTS 1, 2, 3 AND 4 SMALL AMBUNTS OF THE LIQUID ASPIRATED INTO THE LUNGS DURING INGESTION OR FROM VOMITING MAY RESULT IN SEVERE LUNG DAMAGE.

### SIGNS AND SYMPTOMS

SYMPTOMS OF EYE IRRITATION INCLUDE PAIN, TEARING, REDDENING AND SWELLING. SYMPTOMS OF SKIN IRRITATION INCLUDE REDDENING, SHELLING, RASH AND REDNESS. SYMPTOMS OF RESPIRATORY IRRITATION INCLUDE RUNNY MOSE, SORE THROAT, COUGHING, CHEST DISCOMPORT, SHORTNESS OF BREATH AND REDUCED LUNG FUNCTION. SYMPTOMS OR GASTROINTESTIONAL IRRITATION INCLUDE SORE THROAT, ABDOMINAL PAIN, NAUSEA, VONITING AND DIARRHEA. BASED ON THE PRESENCE OF COMPONENTS 1, 2, 3 AND 4 CENTRAL NERVOUS SYSTEM DEPRESSION MAY BE EVIDENCED BY HEADACHE, DIZINESS, NAUSEA AND SYMPTOMS OF INTOXICATION; IN EXTREME CASES, UNCONSCIOUSNESS AND DEATH MAY OCCUR.

### GRAVATED MEDICAL CONDITIONS

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PARÊXISTING SKIN, EYE AND RESPIRATORY DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT. IMPAIRED LIVER FUNCTIONS FROM PREEXISTING DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT. BASED ON THE PRESENCE OF COMPONENTS 1 AND 4 PREEXISTING SKIN OR LUNG ALLERGIES MAY INCREASE THE CHANGE OF DEVELOPING INCREASED ALLERGY SYMPTOMS FROM EXPOSURE TO THIS PRODUCT.

# OTHER HEALTH EFFECTS NOWE RECOGNIZED.

### SECTION V

### EMERGENCY AND FIRST AID PROCEDURES

### EYE CONTACT

IMMEDIATELY FLUSH EYES WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES WHILE HOLDING EYELIDS OPEN. SEEK PROMPT MEDICAL ATTENTION.

### SKIN CONTACT

IMMEDIATELY REMOVE CONTAMINATED CLOTHING AND SHOES. WIPE EXCESS FROM SKIN AND FLUSH WITH WATER FOR AT LEAST 15 MINUTES USING SDAP IF AVAILABLE, SEEK PROMPT MEDICAL ATTENTION, DO NOT REUSE CLOTHING UNTIL THOROUGHLY DECONTAMINATED.

### INHALATION

REMOVE VICTIM TO FRESH AIR AND TREAT SYMPTOMATICALLY. PROVIDE DXYGEN IF BREATHING IS DIFFICULT. GIVE ARTIFICIAL RESPIRATION IF THE VICTIM IS NOT BREATHING, SEEK PROMPT MEDICAL ATTENTION.

### INCESTION

DO NOT INDUCE VOMITING. IF VOMITING SPONTANEOUSLY OCCURS, KEEP THE VICTIM'S HEAD BELOW THE HIPS TO PREVENT ASPIRATION INTO THE LUNGS. SINCE ASPIRATION INTO THE LUNGS CAN CAUSE VERY SERIOUS, PERMANENT DAMAGE, THE DECISION OF WHETHER TO INDUCE VOMITING OR SHOULD BE MADE BY A PHYSICIAN, DANGER FROM LUNG ASPIRATION MUST BE WEIGHED AGAINST TOXICITY WHEN CONSIDERING EMPTYING THE LACH, CONSULT A PHYSICIAN, HOSPITAL OR POISON CONTROL CENTER AND/OR TRANSPORT TO AN EMERGENCY FACILITY IMMEDIATELY.

VIEW VI

### FIRE AND EXPLOSION HAZARDS

flammability classification - OSHA : FLAMMABLE LIQUID - CLASS IB

- DOT : FLAMMABLE LIGUID PACKING GROUP II

flash point : 45 F TCC

EXTINGUISHING HEDIA

USE WATER FOG, FOAM, DRY CHEMICAL DR CARBON DIDXIDE.

SPECIAL FIRE FIGHTING PROCEDURES AND PRECAUTIONS

WARNING. FLAMMABLE. CLEAR FIRE AREA OF UNPROTECTED PERSONNEL. DO NOT ENTER CONFINED FIRE SPACE WITHOUT HELMET, FACE SHIELD, BUNKER COAT, GLOVES, RUBBER BOOTS, AND A POSITIVE PRESSURE NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS.

### UNUSUAL FIRE AND EXPLOSION HAZARDS

CONTAINERS EXPOSED TO INTENSE HEAT FROM FIRES SHOULD BE COOLED WITH WATER TO PREVENT VAPOR PRESSURE BUILDUP WHICH COULD RESULT IN CONTAINER RUPTURE. CONTAINER AREAS EXPOSED TO DIRECT FLAME CONTACT SHOULD BE COOLED WITH LARGE QUANTITIES OF WATER AS NEEDED TO PREVENT WEAKENING OF CONTAINER STRUCTURE. GROUND CONTAINERS WHILE POURING AND LIMIT FREE FALL TO A FEW INCHES TO PREVENT STATIC SPARKS. AVOID SPONTANEOUS COMBUSTION OF CONTAKINTED HAGS AND OTHER EASILY IGNITIBLE ORGANIC ACCUMULATIONS (SUCH AS SPRAY BOOTH RESIDUES) BY IMPEDIATE IMPERSION IN WATER.

SECTION VII

REACTIVITY

STABILITY : STABLE

HAZARDOUS POLYMERIZATION : WILL NOT OCCUR

CONDITIONS AND MATERIALS TO AVOID

BASED ON THE PRESENCE OF COMPONENTS 1, 2, 3 AND 4 AVOID DXIDIZING MATERIALS.

#AZARDOUS DECOMPOSITION PRODUCTS

CARBON DIDXIDE, CARBON MONDXIDE AND UNIDENTIFIED ORGANIC COMPOUNDS MAY BE FORMED DURING COMPUSTION.

SECTION VIII

EXPLOYEE PROTECTION

RESPIRATORY PROTECTION

AVOID PROLONGED OR REPEATED EREATHING OF VAPORS, IF EXPOSURE EXCEEDS TLV USE A NIOSH-APPROVED RESPIRATOR TO PREVENT OVEREXPOSURE.

PROTECTIVE CLOTHING

AVOID CONTACT WITH EYES, WEAR GOGGLES IF THERE IS A LIKELIHOOD OF CONTACT WITH EYES, DO NOT GET ON SKIN OR ON CLOTHING.

ADDITIONAL PROTECTIVE MEASURES

USE VENTILATION AS REQUIRED TO CONTROL VAPOR CONCENTRATIONS. EYE WASH FOUNTAINS AND SAFETY SHOWERS SHOULD BE AVAILABLE FOR USE IN AN EMERGENCY.

SECTION IX

ENVIRONMENTAL PROTECTION

### SPILL OR LEAK PROCEDURES

LARGE SPILLS >> EVACUATE THE HAZARD AREA OF UNPROTECTED PERSONNEL. WEAR APPROPRIATE RESPIRATOR AND PROTECTIVE CLOTHING. SHUT OFF SCURCE OF LEAK ONLY IF SAFE TO DO SO. DIKE AND CONTAIN. IF VAPOR CLOUD FORMS, WATER FOG MAY BE USED TO SUPPRESS; CONTAIN RUN-OFF. REMOVE WITH VACUUM TRUCKS OR PUMP TO STORAGE/SALVAGE VESSELS. SOAK UP RESIDUE WITH AN ABSORBENT SUCH AS CLAY, SAND OR OTHER SUITABLE MATERIAL; PLACE IN NON-LEAKING CONTAINERS FOR PROPER DISPOSAL. FLUSH AREA WITH WATER TO REMOVE TRACE RESIDUE; DISPOSE OF FLUSH SOLUTIONS AS ABOVE. SMALL SPILLS >> TAKE UP WITH AN ABSORBENT MATERIAL AND PLACE IN NON-LEAKING CONTAINERS: SEAL TIGHTLY FOR PROPER DISPOSAL.

ASTE DISPOSAL

REFER TO LATEST SPA OR STATE REGULATIONS REGARDING PROPER DISPOSAL.

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# ADDITIONAL PRECAUTIONS

KEEP LIQUID AND VAPOR AWAY FROM HEAT, SPARKS, AND FLAME. EXTINGUISH FILOT LIGHTS, CIGARETTES AND TURN OFF OTHER POSSIBLE SCURCES OF IGNITION PRIOR TO USE AND UNTIL VAPORS ARE GONE. SURFACES THAT ARE SUFFICIENTLY HOT MAY IGNITE PRODUCT IN THE ABSENCE OF SPARKS OR FLAME. VAPORS MAY ACCUMULATE AND TRAVEL TO IGNITION SOURCES DISTANT FROM HANDLING SITE.

CONTAINERS CAN CONTAIN HAZARDOUS PRODUCT RESIDUES EVEN WHEN EMPTY. WASH WITH SDAP AND WATER BEFORE EATING, DRINKING, SMOKING, OR USING TOILET FACILITIES. KEEP CONTAINERS CLOSED WHEN NOT IN USE. USE WITH ADEQUATE VENTILLATION. CONTAINER, EVEN IF EMPTY, CAN CONTAIN EXPLOSIVE VAPORS. DO NOT CUT, DRILL, GRIND, OR WELD NEAR CONTAINERS.

THE DATA SET FORTH IN THIS SHEET ARE BASED ON INFORMATION PROVIDED BY THE SUPPLIERS OF THE RAW MATERIALS AND CHEMICALS USED IN THE MANUFACTURE OF THE AFFOREMENTIONED PRODUCT. C.E. BRADLEY MAKES NO WARRANTY, EXPRESS OR IMPLIED WITH RESPECT TO THE ACCURACY OF THE INFORMATION PROVIDED BY THEIR SUPPLIERS, AND DISCLAIMS ALL LIABILITY OF RELIANCE THEREOF. C.E. BRADLEY LABORATORIES, INC. WARRANTS ONLY THAT ITS PRODUCTS CONFORM WITH THEIR PUBLISHED SPECIFICATIONS, AND NO OTHER EXPRESS WARRANTY IS MADE WITH REGARD THERETO. WE DO NOT GUARANTEE FAVORABLE RESULTS AND WE ASSUME NO LIABILITY IN CONNECTION WITH THE USE OF THE PRODUCTS. THEY ARE INTENDED FOR USE BY PERSONS HAVING TECHNICAL SKILL AND KNOWLEDGE. AT THEIR OWN DISCRETION AND RISK.

YELLOW

# \*\*\* MATERIAL SAFETY DATA SHEET \*\*\*

'e of prep : 01/04/00

46215 (page 1)

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		E L RAC		

manufacturer : C.E. BRADLEY LABORATORIES

address

P.O. BOX 8238

N. BRATTLEBORG, VT 05304

RICHARD S. CARLSON, CHIEF CHEMIST

telephone# : (802) 257-7971 emergency# : (802) 257-7971 -HMIS-

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! HEALTH ; 1

FLAMMABILITY : 3

: REACTIVITY : 1

: PERSONAL PROTECT .: H !

product class: FOO mfg. code id : 46215

(HAZARD RATING : O=least, 1=slight, 2=moderate, 3=high, 4=extreme, \*=chronic)

(H = splash goggles, gloves, synthetic apron, & vapor respirator)

trade name : HIGH HIDING YELLOW TUMBLING EMANEL (46215)

### SECTION 11-A

### HAZARDOUS COMPONENTS

no.	component	CAS#	% by wt.	HAPS	SARA	vapor pressure (mm Hg & 20C)	LEL (a 250)
1	VM&P NAPHTHA	-8032-32-4	10 - 15	NO	NO	5.20	1.20
2	TOLUENE (BENZENE, METHYL-)	<b>108-88-</b> 3	5 - 10	YES	YES	24.00	1.00
3	KYLENE	<b>~1330-20-</b> 7	15 - 20	YES	YES	<b>6.6</b> 0	1.00
4	ETHYL BENZENE	100-41-4	1 - 5	YES	YES	5.40	1.00
5	MINERAL SPIRITS	8052-41-3	5 - 10	NO	NO	3.10	0.70
6	CADMIUM	7440-43-9	1 - 5	NO	YES	N/A	N/A

Component number 6 is listed by NTP, OSHA and IARC as a carcinogen or a possible carcinogen.

mefer to appropriate reference sources for additional information concerning carcinogens.

>> Under the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR Part 372, chemicals listed on the Section 313 List (40 CFR Part 373.65) are identified under the heading 'SARA 313'.

(N/A = not applicable)

SECT	IDN II-B	OCCUPATIONAL EXPOSURE L	IMITS	
RO.	(OSHA) PEL/TWA	PEL/CEILING	PEL/STEL	skin
1	300 pps	N/E	400 ppm	N/E
2	100 ppm	N/E	150 ppm	N/E
3	100 ppm	N/E	150 ppm	N/E
4	100 ppm	N/E	N/E	N/E
5	100 pps	N/E	N/E	N/E
6	J2 MG/M3 AS Cd DUST	N/E	N/E	N/E
no.	(ACGIH) TLV/TWA	TLV/CEIL ING	TLV/STEL	skin
1	300 ррл	N/E	400 ррш	N/E
2	100 ррв	N/E	150 ppm	N/E
3	100 ррм	N/E	150 ррен	N/E
4	100 ppm	N/E	125 ppm	N/E
5	100 ppm	N/E	200 ppm	N/E
•	.05 MG/M3 AS Cd DUST	N/E	N/E	N/E

The dried film of this product may become a dust nuisance when removed by sanding, blasting or grinding.

<sup>&</sup>gt;> (SKIN) absorption may contribute to the overall exposure to this material. Take appropriate measures to prevent skin contact.

(N/E = not established)



### \*\*\* MATERIAL SAFETY DATA SHEET \*\*\*

46215 (page 2)

SECTION III		PHYSICAL DATA		
evaporation rate	: not established : <1 (ether = 1) : >1 (air = 1) : 4.2296	% volatile by volume % volatile by weight weight per gallon VOC (Exempt)	: 50.52	+/~ 2%
SECTION IV		HEALTH INFORMATION		

### EYE CONTACT

BASED ON THE PRESENCE OF COMPONENTS 1, 2, 3 AND 5 PRODUCT IS PRESUMED TO BE MODERATELY IRRITATING TO THE EYES. EXPOSURE MAY CAUSE CORNEAL INJURY, BASED ON THE PRESENCE OF COMPONENTS 1, 2, 3, 4 AND 5 PRODUCT VAPORS MAY ALSO BE IRRITATING TO THE EYES.

### SKIN CONTACT

BASED ON THE PRESENCE OF COMPONENTS 2 AND 3 PRODUCT IS PRESUMED TO BE MODERATELY IRRITATING TO THE SKIN. PROLONGED CONTACT MAY CAUSE DAMAGE TO THIE SKIN. BASED ON THE PRESENCE OF COMPONENTS 1, 2, 3, 4 AND 5 PROLONGED OR REPEATED CONTACT MAY RESULT IN DEFATTING AND DRYING OF THE SKIN WHICH MAY RESULT IN DEFATTING.

# INHALATION

EXPOSURE MAY PRODUCE IRRITATION TO THE NOSE, THROAT, RESPIRATORY TRACT, AND OTHER MUCOUS MEMBRANES. BASED ON THE PRESENCE OF COMPONENTS 2, 3 AND 4 EXPOSURE TO HIGH CONCENTRATIONS OF VAPOR MAY PRODUCE ONS DEPRESSION.

#### INCESTION

BASED ON THE PRESENCE OF COMPONENTS 2 AND 3 PRODUCT IS PRESUMED TO BE SLIGHTLY TOXIC. BASED ON THE PRESENCE OF COMPONENTS 1, 2, 4 AND 5 SMALL AMOUNTS OF THE LIGUID ASPIRATED INTO THE LUNGS DURING INGESTION OR FROM VOMITING MAY RESULT IN SEVERE LUNG TORMAGE.

### SIGNS AND SYMPTOMS

SYMPTOMS OF EYE IRRITATION INCLUDE PAIN, TEARING, REDDENING AND SWELLING. SYMPTOMS OF SKIN IRRITATION INCLUDE REDDENING, SHELLING, RASH AND REDNESS. SYMPTOMS OF RESPIRATORY IRRITATION INCLUDE RUNNY NOSE, SORE THROAT, COUGHING, CHEST DISCOMPORT, SHORTNESS OF BREATH AND REDUCED LUNG FUNCTION. SYMPTOMS OR GASTROINTESTIONAL IRRITATION INCLUDE SORE THROAT, ABDOMINAL PAIN, NAUSEA, VOMITING AND DIARRHEA. BASED ON THE PRESENCE OF COMPONENTS 1, 2, 3, 4 AND 5 CENTRAL MERVOUS SYSTEM DEPRESSION MAY BE EVIDENCED BY HEADACHE, DIZZINESS, NAUSEA AND SYMPTOMS OF INTOXICATION; IN EXTREME CASES, UNCONSCIOUSNESS AND DEATH MAY OCCUR.

### AGGRAVATED MEDICAL CONDITIONS

PREEXISTING SKIN, EYE AND RESPIRATORY DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT. IMPAIRED LIVER FUNCTIONS FROM PREEXISTING DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT. BASED ON THE PRESENCE OF COMPONENTS 1 AND 5 PREEXISTING SKIN OR LUNG ALLERGIES MAY INCREASE THE CHANCE OF DEVELOPING INCREASED ALLERGY SYMPTOMS FROM EXPOSURE TO THIS PRODUCT.

# OTHER HEALTH EFFECTS

NONE RECOGNIZED.

SECTION V EMERGENCY AND FIRST ALD PROCEDURES

# EYE CONTACT

IMMEDIATELY FLUSH EYES WITH COPIOUS AMOUNTS OF MATER FOR AT LEAST 15 MINUTES WHILE HOLDING EYELIDS OPEN. SEEK PROMPT MEDICAL ATTENTION.

# SKIN CONTACT

"MEDIATELY REMOVE CONTAMINATED CLOTHING AND SHOES. WIPE EXCESS FROM SKIN AND FLUSH WITH WATER FOR AT LEAST 15 MINUTES USING SOAP \_ AVAILABLE. SEEK PROMPT MEDICAL ATTENTION. DO NOT REUSE CLOTHING UNTIL THOROUGHLY DECONTAMINATED.

# INHALATION

REMOVE VICTIM TO FRESH AIR AND TREAT SYMPTOMATICALLY. PROVIDE OXYGEN IF BREATHING IS DIFFICULT. GIVE ARTIFICIAL RESPIRATION IF THE VICTIM IS NOT BREATHING. SEEK PROMPT MEDICAL ATTENTION.

YELLOW

### \*\*\* MATERIAL SAFETY DATA SHEET \*\*\*

46215 (page 3)

INCESTION

DO NOT INDUCE VOMITING. IF VOMITING SPONTANEOUSLY OCCURS, KEEP THE VICTIM'S HEAD BELOW THE HIPS TO PREVENT ASPIRATION INTO THE LUNGS. SINCE ASPIRATION INTO THE LUNGS CAN CAUSE VERY SERIOUS, PERMANENT DAMAGE, THE DECISION OF WHETHER TO INDUCE VOMITING OR NOT SHOULD BE MADE BY A PHYSICIAN. DAMAGER FROM LUNG ASPIRATION MUST BE WEIGHED AGAINST TOXICITY WHEN CONSIDERING EMPTYING THE STOMACH. CONSULT A PHYSICIAN, HOSPITAL OR POISON CONTROL CENTER AND/OR TRANSPORT TO AN EMERGENCY FACILITY IMMEDIATELY.

>> COMPONENT 4 PRODUCT MAY CAUSE SEVERE, PERMANENT DAMAGE IF ASPIRATED AND VOMITING SHOULD NOT BE INDUCED.

SECTION VI

### FIRE AND EXPLOSION HAZARDS

flammability classification - OSHA : FLAMMABLE LIGUID - CLASS IB

- DOT : FLAMMABLE LIQUID PACKING GROUP III

flash point : 45 F TCC

EXTINGUISHING MEDIA

USE WATER FOG, FOAM, DRY CHEMICAL OR CARBON DIOXIDE.

SPECIAL FIRE FIGHTING PROCEDURES AND PRECAUTIONS

WARNING. FLANMABLE. CLEAR FIRE AREA OF UNPROTECTED PERSONNEL. DO NOT ENTER CONFINED FIRE SPACE WITHOUT HELMET, FACE SHIELD, BLANKER COAT, GLOVES, RUBBER BOOTS, AND A POSITIVE PRESSURE NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS.

### UNUSUAL FIRE AND EXPLOSION HAZARDS

CONTAINERS EXPOSED TO INTENSE HEAT FROM FIRES SHOULD BE COOLED WITH WATER TO PREVENT VAPOR PRESSURE BUILDUP WHICH COULD RESULT IN CONTAINER RUPTURE. CONTAINER AREAS EXPOSED TO DIRECT FLAME CONTACT SHOULD BE COOLED WITH LARGE QUANTITIES OF WATER AS NEEDED TO VENT WEAKENING OF CONTAINER STRUCTURE. GROUND CONTAINERS WHILE POURING AND LIMIT FREE FALL TO A FEW INCHES TO PREVENT STATIC SPARKS. AVOID SPONTANEOUS COMBUSTION OF CONTAMINTED RAGS AND OTHER EASILY IGNITABLE ORGANIC ACCUMULATIONS (SUCH AS SPRAY BOOTH RESIDUES) BY IMPEDIATE INVERSION IN WATER.

SECTION VII

REACTIVITY

STABILITY : STABLE

HAZARDOUS POLYMERIZATION : WILL NOT OCCUR

CONDITIONS AND MATERIALS TO AVOID

BASED ON THE PRESENCE OF COMPONENTS 1, 2, 3, 4 AND 5 AVOID OXIDIZING MATERIALS.

HAZARDOUS DECOMPOSITION PRODUCTS

CARBON DIOXIDE, CARBON MONDXIDE AND UNIDENTIFIED ORGANIC COMPOUNDS MAY BE FORMED DURING COMBUSTION.

SECTION VIII

### EMPLOYEE PROTECTION

RESPIRATORY PROTECTION

AVOID PROLONGED OR REPEATED BREATHING OF VAPORS. IF EXPOSURE EXCEEDS TLV USE A NIOSH-APPROVED RESPIRATOR TO PREVENT DVEREXPOSURE.

PROTECTIVE CLOTHING

AVOID CONTACT WITH EYES. WEAR GOGGLES IF THERE IS A LIKELIHOOD OF CONTACT WITH EYES. DO NOT GET ON SKIN OR ON CLOTHING.

ADDITIONAL PROTECTIVE MEASURES

USE VENTILATION AS REQUIRED TO CONTROL VAPOR CONCENTRATIONS. EYE WASH FOUNTAINS AND SAFETY SHOWERS SHOULD BE AVAILABLE FOR USE IN AN EMERGENCY.



### \*\*\* MATERIAL SAFETY DATA SHEET \*\*\*

46215 (page 4)

SECTION IX

### ENVIRONMENTAL PROTECTION

SPILL OR LEAK PROCEDURES

LARGE SPILLS >> EVACUATE THE HAZARD AREA OF UNPROTECTED PERSONNEL. MEAR APPROPRIATE RESPIRATOR AND PROTECTIVE CLOTHING. SHUT OFF SOURCE OF LEAK ONLY IF SAFE TO DO SO. DIKE AND CONTAIN. IF VAPOR CLOUD FORMS, WATER FOG MAY BE USED TO SUPPRESS; CONTAIN RUN-OFF. REMOVE WITH VACUUM TRUCKS OR PUMP TO STORAGE/SALVAGE VESSELS. SOAK UP RESIDUE WITH AN ABSORBENT SUCH AS CLAY, SAND OR OTHER SUITABLE MATERIAL; PLACE IN NON-LEAKING CONTAINERS FOR PROPER DISPOSAL. FLUSH AREA WITH WATER TO REMOVE TRACE RESIDUE; DISPOSE OF FLUSH SOLUTIONS AS ABOVE. SMALL SPILLS >> TAKE UP WITH AN ABSORBENT MATERIAL AND PLACE IN NON-LEAKING CONTAINERS; SEAL TIGHTLY FOR PROPER DISPOSAL.

WASTE DISPOSAL

REFER TO LATEST EPA OR STATE REGULATIONS REGARDING PROPER DISPOSAL.

SECTION X

### ADDITIONAL PRECAUTIONS

KEEP LIGUID AND VAPOR AWAY FROM HEAT, SPARKS, AND FLAME. EXTINGUISH PILOT LIGHTS, CIGARETTES AND TURN OFF OTHER POSSIBLE SOURCES OF IGNITION PRIOR TO USE AND UNTIL VAPORS ARE GONE. SURFACES THAT ARE SUFFICIENTLY HOT MAY IGNITE PRODUCT IN THE ABSENCE OF SPARKS OR FLAME, VAPORS MAY ACCURULATE AND TRAVEL TO IGNITION SOURCES DISTANT FROM HANDLING SITE.

CONTAINERS CAN CONTAIN HAZARBOUS PRODUCT RESIDUES EVEN WHEN EMPTY. WASH WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING, OR USING TOILET FACILITIES. KEEP CONTAINERS CLOSED WHEN NOT IN USE. USE WITH ADEQUATE VENTILLATION. CONTAINER, EVEN IF EMPTY, CAN CONTAIN EXPLOSIVE VAPORS. DO NOT CUT, DRILL, GRIND, OR WELD NEAR CONTAINERS.

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