Printing date 06/18/2012

Reviewed on 06/18/2012

1 Identification of the substance/mixture and of the company/undertaking

- · Product identifier
- · Trade name: R-BB1 Rolmark Bright Blue Stencil Ink
- · Article number: Part Codes: 20896, 20919
- · Application of the substance / the preparation Printing inks
- · Details of the supplier of the safety data sheet

• Manufacturer/Supplier: Marsh Shipping Supply Co.,LLC 926 McDonough Lake Road - Unit E Collinsville, IL 62234 USA

· Information department: customerservice@msscllc.com

• Emergency telephone number: Infotrac: USA 1 800 535 5053 International 352-323-3500 Call Collect

2 Composition/information on ingredients

· Chemical characterization: Mixtures

· Description: Mixture of the substances listed below with nonhazardous additions.

· Hazardous co	mponents	
123-42-2	4-hydroxy-4-methylpentan-2-one	65.6%
	🗙 Xi R36	
	🚯 H319	
14807-96-6	<i>Talc (Mg3H2(SiO3)4)</i>	10.54%
	🗙 Xi R36/37/38	
	🕦 H315; H319; H335	
	Polymer of modified Rosin Resin	8.19%
	R18	
147-14-8	Phthalocyanine Blue - EINECS Listed	2.25%
112945-52-5	Amorphous Fumed Silica, Silicon Dioxide, Crystalline Free	1.0%

· Additional information:

For the wording of the listed risk phrases refer to section 16.

This prodct contains pigments which may become a dust nuisance when removed by abrasive blasting or sanding. Airborne nuisance particulates have an ACGIH TLV for total dust of 10mg/M3

3 Hazards identification

· Classification of the substance or mixture



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Trade name: R-BB1 Rolmark Bright Blue Stencil Ink

 H33 May be harmful if inhaled. Classification according to Directive Of/S48/EEC or Directive 1999/45/EC. NOTICE-For professional users only! This material is intended for use by trained professional applicators, only dire carefully examining this MSDS and evaluating safety precautions associated with the use of this material. With the product has to be labelled due to the calculation procedure of international guidelines. Classification system: The product has to be labelled due to the calculation procedure of international guidelines. Classification system: The classification was made according to the latest editions of international substances lists and from component data and mask information Label elements Label classified and marked in accordance with directives on hazardous materials. Calce letter and hazard designation of product: Xi traint Kis phrase: Bo not breathe gas/funes/vapour/spray (appropriate wording to be specified by the manufacturer). 2 Abo not breathe gas/funes/vapour/spray (appropriate wording to be specified by the manufacturer). 2 A to contact with eyes, rinse immediately with plenty of water and seek medical advice. 3 Bo not breathe gas/funes/vapour/spray (appropriate wording to be specified by the manufacturer). 2 A to contact with eyes, rinse immediately with plenty of water and seek medical advice. 3 Bo not breathe gas/funes/vapour/spray (appropriate wording to associated with gives including fatigue. 3 Bo not breathe gas/funes/vapour/spray (appropriate wording to be specified by the manufacturer). 2 Avoid contact with eyes, rinse immediately with plenty of water and seek medical advice. 3 Bo not breathe gas/funes/vapour/spray (appropriate wording to be specified by the manufacturer). 3 Bo not meather and hare containd and arger of man and environment:<th></th><th>(Contd. of page 1)</th>		(Contd. of page 1)
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Fire = 2 Reactivity = 0 (Contd. on page 3)		
		Fire = 2
		(Contd. on page 3) USA

(Contd. of page 2)

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· HMIS-ratings (scale 0 - 4)

HEALTH1Health = 1FIRE2Fire = 2REACTIVITY0Reactivity = 0

4 First aid measures

· General information:

Take affected persons out into the fresh air. Involve doctor immediately.

- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Immediately rinse with water for 15 minutes. If irritation exists call physcian.
- · After eye contact:
- *Rinse opened eye for fifteen minutes under running water. If irritation persists, consult a doctor.* • *After swallowing:* Do not induce vomiting; immediately call for medical help.

5 Firefighting measures

· Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. • Special hazards arising from the substance or mixture

Nitrogen oxides (NOx)

- Carbon monoxide (CO)
- **Protective equipment:** Wear self-contained respiatory protective device. Wear fully protective suit.

· Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations. Collect contaminated fire fighting water separately. It must not enter the sewage system.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures	
Wear protective equipment. Keep unprotected persons away.	
Ensure adequate ventilation	
Wear protective clothing.	
· Environmental precautions:	
Do not allow product to reach sewage system or any water course.	
Do not allow to enter sewers/ surface or ground water.	
Prevent from spreading (e.g. by damming-in or oil barriers).	
• Methods and material for containment and cleaning up:	
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).	
Dispose contaminated material as waste according to item 13.	
Ensure adequate ventilation.	
· Reference to other sections	
See Section 7 for information on safe handling.	
See Section 8 for information on personal protection equipment.	
	(Contd. on page 4)

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(Contd. of page 3)

See Section 13 for disposal information.

7 Handling and storage

· Handling:

· Precautions for safe handling

Store in cool, dry place in tightly closed receptacles.

Keep away from heat and direct sunlight.

Ensure good ventilation/exhaustion at the workplace.

- Prevent formation of aerosols.
- Handle with care. Avoid jolting, friction and impact.

Hydrocarbon solvents are basically non-conductors of electricity and can become electrostatically charged during mixing or moving, observe grounding/grounding of containers and other equipment when handeling.

- · Information about protection against explosions and fires: No special measures required.
- · Storage:
- Requirements to be met by storerooms and receptacles: Store only in the original receptacle. Prevent any seepage into the ground.
 Information about storage in one common storage facility:

Do not store together with oxidizing and acidic materials as well as heavy-metal compounds. Store away from foodstuffs.

Further information about storage conditions: Keep receptacle tightly sealed. Store in cool, dry conditions in well sealed receptacles. Protect from humidity and water. Protect from exposure to the light.
Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

· Components with limit values that require monitoring at the workplace:

123-42-2 4-hydroxy-4-methylpentan-2-one

- PEL 240 mg/m³, 50 ppm
- *REL* 240 mg/m³, 50 ppm *TLV* 238 mg/m³, 50 ppm

1LV 238 mg/m⁻, 50 ppm

Polymer of modified Rosin Resin

PEL 15* 5** mg/m³

*Total Dust **Respirable Fraction

147-14-8 Phthalocyanine Blue - EINECS Listed

PEL 5* 15** mg/m³

*Respirable ** Total dust

112945-52-5 Amorphous Fumed Silica, Silicon Dioxide, Crystalline Free

TLV 3.5 mg/m^3

• Additional information: The lists that were valid during the creation were used as basis.

- · Personal protective equipment:
- General protective and hygienic measures:
- The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

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(Contd. of page 4)

USA

Do not inhale gases / fumes / aerosols. Avoid contact with the eyes and skin. Pregnant women should strictly avoid inhalation or skin contact. Do not eat, drink, smoke or sniff while working.

• Breathing equipment:

Use suitable respiratory protective device in case of insufficient ventilation. Do not breath vapors, spray mists, or sanding dusts. Use air purifying respirators fitted with organic vapor/HEPA cartridges only if air monitoring demonstrates solvent/particulate levels do not exceed the respirator maximum use concentration. Use properly fitted NIOSH approved respirators. Local and general exhaust should minimize any exposure.

· Protection of hands:



Protective gloves

· Material of gloves

Nitrile or natural rubber gloves are typically used to protect from minor contact. Butyl type are best for prolonged contact.

Nitrile rubber, NBR · Eye protection:



Vapor proof safety goggles or full face respirator

· Body protection:

Solvent resistant protective clothing Impervious protective clothing Tyvek(R) coveralls to protect from light overspray protection or Saranex 23-P(R) for moderate exposure.

0				
	Physical	and c	amica	properties
7	I n v s u u	u n u c r		DIUDEILLES

Appearance:		
Form:	Fluid	
Color:	Blue	
· Odor:	Characteristic	
· Odour threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	150°C (302 °F)	
Flash point:	58°C (136 °F)	
Flammability (solid, gaseous):	Not applicable.	
Ignition temperature:	620°C (1148 °F)	
Decomposition temperature:	Not determined.	
Auto igniting:	Product is not selfigniting.	
Danger of explosion:	Not determined.	
		(Contd. on pag

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		(Contd. of page
· Explosion limits:		
Lower:	1.4 Vol %	
Upper:	8.1 Vol %	
· Vapor pressure at $20^{\circ}C$ (68 $^{\circ}F$):	1.1 hPa (1 mm Hg)	
• Density at 20°C (68 °F):	1.13911 g/cm³ (9.506 lbs/gal)	
· Relative density	Not determined.	
· Vapour density	Not determined.	
· Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
Water:	Not miscible or difficult to mix.	
· Segregation coefficient (n-octonol/wo	uter): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Organic solvents:	65.6 %	
VOC content:	65.6 %	
	747.3 g/l / 6.24 lb/gl	
Solids content:	34.4 %	
• Other information	No further relevant information available.	

10 Stability and reactivity

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

- *Incompatible materials:* No further relevant information available.
- Hazardous decomposition products: Nitrogen oxides Chlorine

Sulfur dioxide

Carbon monoxide and carbon dioxide

11 Toxicological information

• Acute toxicity:

· LD/LC50 values that are relevant for classification:

123-42-2 4-hydroxy-4-methylpentan-2-one

Oral LD50 4000 mg/kg (rat)

Dermal LD50 13630 mg/kg (rab)

- · Primary irritant effect:
- on the skin: Irritant to skin and mucous membranes.
- on the eye: Irritating effect.

· Sensitization:

Sensitizing effect through inhalation is possible with prolonged exposure.

Sensitizing effect by skin contact is possible with prolonged exposure.

· Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

(Contd. on page 7)

(Contd. of page 6)

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Irritant

Danger through skin absorption.

12 Ecological information

- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- Additional ecological information:
- · General notes:
- Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. This statement was deduced from the properties of the single components.

13 Disposal considerations

· Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Hand over to hazardous waste disposers.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

UN-Number		
DOT, ADR, IMDG, IATA	UN1210	
UN proper shipping name		
DOT, IMDG, IATA	PRINTING INK	
ADR	1210 PRINTING INK	
Transport hazard class(es)		
DOT, IMDG, IATA		
• Class	3 Flammable liquids.	
Label	3	
ADR		
*		
Class	3 Flammable liquids	
Label	3	

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		(Contd. of page 7
· Packing group · DOT, ADR, IMDG, IATA	111	
Environmental hazards: Marine pollutant:	No	
Special precautions for user	Warning: Flammable liquids	
Danger code (Kemler):	30	
EMS Number:	F-E,S-D	
Transport in bulk according to Annex	II of	
MARPOL73/78 and the IBC Code	Not applicable.	
UN ''Model Regulation'':	UN1210, PRINTING INK, 3, III	

15 Regulatory information

Substituted C	opper Phthalocyanine - Trade Secret		0,24%
	t: 29943300001-5650 - EINECS Listed		
Contains <1	% as Cu by weight		
SARA Title I	II Section 311/312 - Hazard Communication Standard (40 CFR 370))	
14807-96-6	Talc (Mg3H2(SiO3)4)		10,54%
13463-67-7	titanium dioxide		9,0%
	Substituted Copper Phthalocyanine - Trade Secret NJ Registry #: 29943300001-5650 - EINECS Listed Contains <1% as Cu by weight		0,24%
	rosin, resin derivative, aluminum salt NJ registry # 29943300001-5642 - EINECS Listed		0,24%
68987-63-3	Chlorinated Copper,[29H,31H-phthalocyaninato(2-)-		0,21%
	Amine - Trade Secret - EINECS Listed NJ registry # 29943300001-4023		0,06%
RCRA: Reso	urce Conservation and Recovery Act / Code		
147-14-8 Ph	thalocyanine Blue - EINECS Listed	Cu-grondwater monit	. 2,25%
	Substances Control Act):		
Ũ	ts are listed or exempt.		
	4-hydroxy-4-methylpentan-2-one		
	Talc (Mg3H2(SiO3)4)		
13463-67-7	titanium dioxide		
147-14-8	Phthalocyanine Blue - EINECS Listed		
	acrylic copolymer -EU Polymer exempted- Not Regulated		
112945-52-5	Amorphous Fumed Silica, Silicon Dioxide, Crystalline Free		
7631-86-9	silicon dioxide, chemically prepared		
21645-51-2	aluminium hydroxide		
	Substituted Copper Phthalocyanine - Trade Secret NJ Registry #: 29943300001-5650 - EINECS Listed Contains <1% as Cu by weight		
	· ·		. on page

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	3 Chlorinated Copper,[29H,31H-phthalocyaninato(2-)-			
	7 Quartz (SiO2)			
	ct- Hazardous Air Pollutants			
	r Act: Section 311(b)(2)(A) & Priority Pollutants			
14/-14-8	Phthalocyanine Blue - EINECS Listed		ection 304 & 30	
	Substituted Copper Phthalocyanine - Trade Secret NJ Registry #: 29943300001-5650 - EINECS Listed Contains <1% as Cu by weight	Priori	ty Pollutant	0,24
68987-63-3	Chlorinated Copper,[29H,31H-phthalocyaninato(2-)-	Priori	ty Pollutant	0,21
· ACGIH Car	rcinogen			
14807-96-6	Talc (Mg3H2(SiO3)4)		A4	10,54
13463-67-7	titanium dioxide		A4	9,0%
14808-60-7	Quartz (SiO2)		A2	0,054
· Cancerogen	ity categories			
· IARC (Inter	rnational Agency for Research on Cancer)			
14807-96-6	Talc (Mg3H2(SiO3)4)		3	10,54
13463-67-7	titanium dioxide		2B	9,0%
7631-86-9	silicon dioxide, chemically prepared		3	0,6%
14808-60-7	Quartz (SiO2)		1	0,054
NTP (Natio	nal Toxicology Program)		I	
	Quartz (SiO2)		K	0,054
· TLV (Thres	hold Limit Value established by ACGIH)		I	<u> </u>
•	Talc (Mg3H2(SiO3)4)		A4	10,54
	titanium dioxide		A4	
14808-60-7	Quartz (SiO2)		A2	0,054
· NIOSH (Na	tional Institute for Occupational Safety and Health)		1	<u> </u>
	4-hydroxy-4-methylpentan-2-one	Gı	uidelines 89-104	65,69
	Talc (Mg3H2(SiO3)4)	Gı	uidelines 81-123	10,54
	titanium dioxide	*		9,0%
14808-60-7	Quartz (SiO2)	*		0,054
· State regula				
	Right-to-know			
147-14-8 P	hthalocyanine Blue - EINECS Listed		Cu compoun	d 2,25
	osin, resin derivative, aluminum salt J registry # 29943300001-5642 - EINECS Listed		Listed	0,24
· Massachuss	setts Right-to-know / Hazardous Substance Codes			<u> </u>
123-42-2	4-hydroxy-4-methylpentan-2-one		2,4	65,69
14807-96-6	Talc (Mg3H2(SiO3)4)		2,4 F5	10,54
13463-67-7	titanium dioxide		4	9,0%
7631-86-9	silicon dioxide, chemically prepared		2,4,5 F5	0,6%
14808-60-7	Quartz (SiO2)		1,2,4 *E*C* F5	0,054
· Florida Haz	zardous / Toxic Substance Lists	I		
	4-hydroxy-4-methylpentan-2-one		Toxic	65,69

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7631-86-9	silicon dioxide, chemically prepared			oxic	l. of page 9 0,6%
	Quartz (SiO2)		Ta	oxic	0,054%
Pennsylvan	ia Hazardous Substances				
123-42-2	4-hydroxy-4-methylpentan-2-one				65,6%
14807-96-6	Talc (Mg3H2(SiO3)4)	Listed			10,54%
13463-67-7	titanium dioxide	Listed			9,0%
147-14-8	Phthalocyanine Blue - EINECS Listed	Си сотро	ound		2,25%
7631-86-9	silicon dioxide, chemically prepared	Listed			0,6%
	Substituted Copper Phthalocyanine - Trade Secret NJ Registry #: 29943300001-5650 - EINECS Listed Contains <1% as Cu by weight	Environm	ental Hazardous Substa	nce	0,24%
68987-63-3	Chlorinated Copper,[29H,31H-phthalocyaninato(2-)-	Environm	eental Hazardous Substa	nce	0,21%
Minnesota I	Right To Know / Hazardous Substances				
123-42-2	4-hydroxy-4-methylpentan-2-one		ANO		65,6%
14807-96-6	Talc (Mg3H2(SiO3)4)		Listed		10,54%
13463-67-7	titanium dioxide		Α		9,0%
7631-86-9	silicon dioxide, chemically prepared		Codes ANOR, Carcino	gen	0,6%
14808-60-7	Quartz (SiO2)		Codes A		0,054%
Illinois Rigl	ht To Know				
	ingredients is listed.				

Xi Irritant

· Risk phrases:

36 Irritating to eyes.

· Safety phrases:

23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).

25 Avoid contact with eyes.

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

36 Wear suitable protective clothing.

38 In case of insufficient ventilation, wear suitable respiratory equipment.

60 This material and its container must be disposed of as hazardous waste.

· National regulations:

• Occupational Safety and Health Act (OSHA) Immediate (acute) health hazard Delayed (chronic) Health Hazard

• Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

16 Other information

(Contd. on page 11) USA

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supplien informa user. Al	(Contd. of page 10) best of our knowledge, the information contained herein is accurate. However, neither the above named r nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the tion contained herein. Final determination of suitability of any material is the sole responsibility of the l materials may present unknown hazards and should be used with caution. Although certain hazards are red herein, we cannot guarantee that these are the only hazards that exist.
· Relevan	t phrases
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
R18 R36	In use, may form flammable/explosive vapour-air mixture. Irritating to eyes.
R36/37/	38 Irritating to eyes, respiratory system and skin.
· Contact	: Mike Rickert
Abbrevi	ations and acronyms:
ADR: Acc	cord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International of Dangerous Goods by Road)
0	lement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the nal Transport of Dangerous Goods by Rail)
	ternational Maritime Code for Dangerous Goods
IATA: Inte	ernational Air Transport Association
	ernational Civil Aviation Organization American Conference of Governmental Industrial Hygienists
	itional Fire Protection Association (USA)
	izardous Materials Identification System (USA)
	atile Organic Compounds (USA, EU)
LC50: Let	thal concentration, 50 percent
LD50: Let	thal dose, 50 percent
	- USA