SDS #100 Blue Ink

Revision Date: 5/8/2015

1. PRODUCT IDENTIFICATION					
PRODUCT NAME: PRODUCT COLOR: RECOMMENDED USE:	#100 Blue Ink Blue Coding & Marking]			
Manufacturer/Supplier: Universal Stenciling & Marking Syst 205 15th Avenue S.E. Saint Petersburg, FL 33701 USA	ems, Inc.	1-727-894-3027			
Emergency Telephone Number:					
TRANSPORTATION:	CHEMTREC :	1-800-424-9300 (North America) 1-703-527-3887 (International)			

2. HAZARDS IDENTIFICATION

Emergency Overview:

GHS Classification:	
Flammable liquids	Category 3
Acute toxicity - Oral	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1
Specific target organ toxicity (single exposure)	Category 3

GHS label elements, including precautionary statements



Signal Word Danger

Hazard Statements

SDS #100 Blue Ink

Revision Date: 5/8/2015

H226 H302 H313+H333 H315 H318 H335 H336	Flammable liquid and vapor Harmful if swallowed May be harmful in contact with skin or if inhaled Causes skin irritation Causes serious eye damage May cause respiratory irritation May cause drowsiness or dizziness
1330	way cause drowsiness of dizziness
Precautionary Statements	
P210	Keep away from heat/sparks/open flames/hot surfaces. — No smoking
P242	Use only non-sparking tools
P261	Avoid breathing dust/fume/gas/mist/vapors/spray
P270	Do not eat, drink or smoke when using this product
P301+P312	IF SWALLOWED: Call a POSION CENTER or doctor/physician if you feel unwell
P302+P352	IF ON SKIN: Wash with plenty of soap and water
P303+P361+P351	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse continuously with water for several minutes.
P305+P351+P338	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P308+P313	IF exposed or concerned: Get medical advice/attention.
P310	Immediately call a POISON CENTER or doctor/physician
P330	Rinse mouth
P332+P313	If skin irritation occurs: Get medical advice/attention
P403+233	Store in a well-ventilated place. Keep container tightly closed
P501	Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
n-Butyl Alcohol	71-36-3	20-40
1-Methoxy-2-propanol	107-98-2	10-20
Ethyl Alcohol	64-17-5	5-25
2-Propanol	67-63-0	2-15
Propyl Acetate	109-60-4	0-5

4. FIRST AID MEASURES

First Aid Measures Ingestion: If swallowed, do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician. Eyes: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

SDS #100 Blue Ink

Revision Date: 5/8/2015

Skin:

Inhalation:

Most important symptoms and effects

Symptoms Eye contact may result in redness, pain, blurred vision, burning

Consult a physician.

sensation. Skin contact may result in irritation, defatting or dermatitis. Inhalation may cause drowsiness or dizziness. Inhalation may cause respiratory tract irritation. Ingestion may cause nausea, vomiting, dizziness and headache.

Remove contaminated clothing. Wash off with soap and plenty of water.

If breathed in, move person into fresh air. If not breathing, give

artificial respiration. Consult a physician.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically

5. FIREFIGHTING MEASURES

Suitable extinguishing media:

Water fog, Multipurpose foam, Dry chemical, CO2

Unsuitable extinguishing media:

Do not use a solid water stream as it may scatter and spread fire.

Specific hazards in case of fire:

Fight as volatile liquid fire Flashback fires may occur Vapors are dense and may travel to remote ignition source

Hazardous combustion products:

Carbon oxides, Nitrogen oxides, organic combustion products which may be toxic and/or irritating

Protective equipment and precautions for fire fighters:

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Wear chemical goggles, gloves, boots and protective clothing. Wear respirator if necessary. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition and heat.

Environmental precaution:

Prevent additional discharge of material. Prevent material from entering sewers or water courses.

Methods and materials for containment and cleaning up:

Absorb small spills with sand, filter-aid, vermiculite or other inert absorbent material, them place in a chemical waste container. For large spills, contain with sand or earth dikes. Dispose of waste in accordance with applicable government regulations.

7. HANDLING AND STORAGE

Precautions for safe handling:

Avoid contact with eyes. Wash face, hands, and any exposed skin thoroughly after handling. Do not eat, drink of smoke when using this product. Wear protective gloves/protective clothing and eye/face protection. Avoid breathing dust/fume/gas/mist/vapors/spray. Unscrew all caps slowly. Do not unscrew entirely until all pressure has been completely released. Keep away from heat/sparks/open flames/hot surfaces. Emptied containers may retain residues. Precautions apply to emptied containers.

Conditions for safe storage, including incompatibilities:

Keep container tightly closed and store in a cool, dry and well-ventilated place. Keep storage temperature between 4-32 °C (40-90 °F). Incompatible with strong oxidizing agents, strong acids, strong bases, alkali metals and halogens.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Guidelines:

Chemical Name and CAS#	ACGIH TLV	OSHA PEL	NIOSH IDLH
n-Butyl Alcohol 71-36-3	TWA: 20 ppm	TWA: 100 ppm TWA: 300 mg/m ³	IDLH: 1400 ppm Ceiling: 50 ppm Ceiling: 150 mg/m ³ skin
1-Methoxy-2-propanol 107-98-2	STEL: 150 ppm TWA: 100 ppm	TWA: 100 ppm TWA: 360 mg/m ³ STEL: 150 ppm STEL: 540 mg/m ³	TWA: 100 ppm TWA: 360 mg/m ³ STEL: 150 ppm STEL: 540 mg/m ³
Ethyl Alcohol 64-17-5	TWA: 1000 ppm	TWA: 1000 ppm TWA: 1900 mg/m ³	IDLH: 3300 ppm TWA: 1000 ppm TWA: 1900 mg/m ³
2-Propanol 67-63-0	STEL: 400 ppm TWA: 200 ppm	TWA: 400 ppm TWA: 980 mg/m ³ STEL: 500 ppm STEL: 1225 mg/m ³	IDLH: 2000 ppm TWA: 400 ppm TWA: 980 mg/m ³ STEL: 500 ppm STEL: 1225 mg/m ³
Propyl Acetate 109-60-4	TWA: 200 ppm TWA: 840 mg/m ³ STEL: 250 ppm STEL: 1025 mg/m ³	TWA: 400 ppm TWA: 980 mg/m ³ STEL: 500 ppm STEL: 1225 mg/m ³	IDLH: 1700 ppm TWA: 200 ppm TWA: 840 mg/m ³ STEL: 250 ppm STEL: 1050 mg/m ³

Appropriate engineering controls

Apply technical measures to comply with the occupational exposure limits. Local exhaust and mechanical ventilations are recommended to be used as engineering controls.

Individual protection measures, such as personal protective equipment:

Eye/Face protection:	Safety glasses with side shields or chemical goggles must be worn.
Skin/Body protection:	Wear protective gloves. Wear suitable protective clothing and footwear appropriate for the risk of exposure.
Respiratory protection:	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Respiratory protection must be provided in accordance with current local regulations.

Revision Date: 5/8/2015

General hygiene:

Handle in accordance with good industrial hygiene and safety practice.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Property Physical state: Odor: Odor threshold: pH: Melting point/freezing point: Boiling point/Boiling range: Flash point: Evaporation Rate: Flammability (solid, gas): Upper/lower flammability limits: Vapor pressure: Vapor density: Specific gravity: Water solubility: Solubility in other solvents: Partition Coefficient: Auto-ignition Temperature: Decomposition temperature:	Values Liquid Moderate Not detern Not detern Not detern 23.3 °C / 7 <1 Not detern Not detern Not detern Not detern >1 0.9 - 0.98 Partially so Not detern Not detern Not detern Not detern Not detern
Decomposition temperature:	Not detern
Viscosity: VOC Content (%): VOC Content:	8-20 cps 90 % 6.7 – 7.3

etermined etermined etermined etermined C / 74 °F etermined etermined etermined 0.98 lly soluble etermined etermined etermined etermined cps 7.3 lbs/gal

air = 1 water = 1

Tag Closed Cup butyl acetate = 1

Remarks-Methods

10. STABILITY AND REACTIVITY

Reactivity:

Not reactive under normal conditions.

Chemical Stability:

Stable under recommended storage conditions.

Possibility of hazardous reactions:

None under normal processing.

Conditions to avoid:

Keep out of reach of children. Keep away from heat, sparks and open flame. Keep away from contact with incompatible materials.

Incompatible materials:

Strong oxidizing agents, strong acids, strong bases, alkali metals, halogens

Hazardous decomposition products:

Carbon oxides, nitrogen oxides, thermal decomposition can lead to release of irritating and toxic gases and vapors.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Eye contact:

Causes serious eye damage

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Skin contact:	Causes skin irritation
Inhalation:	May cause respiratory irritation. May cause drowsiness or dizziness.
Ingestion:	Harmful if swallowed

Component Information:

Chemical Name and CAS#	Oral LD50	Dermal LD50	Inhalation LC50
n-Butyl Alcohol 71-36-3	= 790 mg/kg (Rat)	= 5,620 mg/kg(Rabbit)	>17.9 mg/l (Rat)4 h
1-Methoxy-2-propanol 107-98-2	= 4,016 mg/kg(Rat)	>2,000 mg/kg (Rabbit)	= 25.8 mg/l (Rat)5h
Ethyl Alcohol = 2,000 mg/kg(Rat) 64-17-5		>2,000 mg/l (Rabbit)	>20 mg/l (Mouse)4h
2-Propanol 67-63-0	= 5,045 mg/kg (Rat)	= 12,800 mg/kg (Rabbit)	= 16,000 mg/ m ³ (Rat) 8 h
Propyl Acetate 109-60-4	= 9,370 mg/kg (Rat)	= 17,740 mg/kg (Rabbit)	No data available

Information on physical, chemical and toxicological effects: Symptoms

Please see section 4 of this SDS for symptoms

Delayed and immediate effects as well as chronic effects from short and long-term exposure:

Carcinogenicity:

ACGIH	IARC	NTP	OSHA
	Group 3		
	ACGIH		

Legend

ACGIH (American Conference of Governmental Industrial Hygienists) A3 - Animal Carcinogen IARC (International Agency for Research on Cancer) Group 1 - Carcinogenic to Humans Group 2B – Limited evidence of carcinogenicity Group 3 IARC components are "not classifiable as human carcinogens" NTP (National Toxicology Program) Known - Known Carcinogen OSHA (Occupational Safety and Health Administration of the US Department of Labor) X - Present

Numerical measures of toxicity:

Not determined

12. ECOLOGICAL INFORMATION

Ecotoxicity:

SDS #100 Blue Ink

Revision Date: 5/8/2015

Component Information

Chemical Name and CAS#	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
n-Butyl Alcohol 71-36-3	EC50 - Desmodesmus subspicatus - 500 mg/L – 72h	LC50 - Pimephales promelas - 1840 mg/L - 96 h		EC50 - Daphnia magna – 1983 mg/L - 48 h
1-Methoxy-2-propanol 107-98-2		LC50 - Pimephales promelas – 20,800 mg/L – 96h		EC50 - Daphnia magna – 23,300 mg/L – 48h
Ethyl Alcohol 64-17-5		LC50 - Pimephales promelas – 15,300 mg/L – 96h	EC50 = 34634 mg/L 30 min EC50 = 35470 mg/L 5 min	EC50 - Daphnia magna - 9268 - 14221 mg/L – 48h
2-Propanol 67-63-0	EC50 - Desmodesmus subspicatus - 2000 mg/L – 72h	LC50 - Pimephales promelas – 9,640 mg/L – 96h		EC50 - Daphnia magna – 5,102 mg/L – 96h
Propyl Acetate 109-60-4				EC50 - Daphnia magna - 318 mg/L – 24h

Persistence/Degradability: Not determined

Bioaccumulation:

Not determined

Mobility:

Not determined

Other Adverse Effects:

No data available

13. DISPOSAL CONSIDERATIONS

Disposal of Wastes:	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated Packaging:	Dispose of as unused product in accordance with applicable regional, national and local laws and regulations.

SECTION 14 – TRANSPORTATION INFORMATION

DOT

-	UN number Proper shipping name Hazard class Packing group ERG#	1210 PRINTING INK 3 III 129
ΙΑΤΑ	UN number Proper shipping name Hazard class Packing group	1210 PRINTING INK 3 III
IMDG	UN number	1210

Proper shipping namePRINTING INKHazard class3Packing groupIIIMarine pollutantNo

SECTION 15 – REGULATORY INFORMATION

TSCA STATUS:

All Components listed

OTHER REGULATORY:

Ingredient(s)	<u>SARA 302</u>	SARA 311/312	<u>SARA 313</u>	<u>RECRA</u>	<u>CERCLA</u>
n-Butyl Alcohol	No	F, A, C	Yes	U031	No
1-Methoxy-2-propanol	No	F, A, C	No	No	No
Ethyl Alcohol	No	F, C	No	No	No
2-Propanol	No	F, A, C	Yes	No	No
Propyl Acetate	No	F, A	No	No	No
Propyl Acetate	No	F, A	No	No	No

SARA 311/312 Codes:

R = Reactive HazardP = Pressure Hazard

F = Fire Hazard

A = Immediate/Acute

C = Delayed/Chronic

California Prop. 65 Components: Chemicals known to the state of California to cause birth defects or other reproductive harm:

This product does not contain any chemicals known to the state of California to cause cancer, birth defects or any other reproductive harm.

SECTION 16 – OTHER INFORMATION

HMIS:

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3
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 Revision Date:
 08-May-2015

 Replaces:
 19-Jan-2015

 Revision Note:
 Update. Correction to Oral toxicity classification in Section 2 and update to other information in Section 2 & 11 due to new SDS from suppliers.

Prepared by: Don Wright

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Revision Date: 5/8/2015

implied, regarding the accuracy of the information, the hazards connected with the use of the material, or results to be obtained from the use thereof. All of the listed ingredients in this product that are considered to present a health hazard as defined in Appendix A of the OSHA "Hazard Communication" standard (29CFR 1910.1200) as listed in Section II. All of the information given, including ingredient identification, CAS Number, and quantity, is proprietary information, which has been provided in order to meet the objective of the "Hazard Communication" standard. Data provided here are typical and not intended for use as product specifications. This formulation information is confidential, and only to be disclosed in accordance with Federal and State safety and health regulations. Permission to disclose any ingredient information for any other purpose is neither given nor implied.