Revision Date: 6/15/2015 SDS# 410006

1. PRODUCT IDENTIFICATION

PRODUCT NAME: #100 Solvent

PRODUCT COLOR: Clear

RECOMMENDED USE: Coding and Marking

Manufacturer/Supplier:

Diagraph MSP

5307 Meadowland Parkway

Marion IL 62959

Phone: 1-800-521-3047

Email: msds@diagraphmsp.com Contact: Customer Service

Emergency Telephone Number: INFOTRAC: 800-535-5053 (US only)

TRANSPORTATION: +1-352-323-3500 international

2. HAZARDS IDENTIFICATION

Emergency Overview:

GHS Classification:

Flammable liquids	Category 3
Serious eye damage/eye irritation	Category 2A
Specific target organ toxicity (single exposure)	Category 3

GHS label elements, including precautionary statements



Pictogram

Signal Word Warning

Hazard Statements

H226 Flammable liquid and vapor
 H319 Causes serious eye irritation
 H336 May cause drowsiness or dizziness

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Precautionary Statements

P210 Keep away from heat/sparks/open flames/hot surfaces
P243 Take precautionary measures against static discharge
P261 Avoid breathing dust/fume/gas/mist/vapors/spray

P264 Wash skin thoroughly after handling

P271 Use only outdoors or in a well-ventilated area

P280 Wear protective gloves/protective clothing/eye protection/face protection
P303+P361+P353 Wear protective gloves/protective clothing/eye protection/face protection
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.

Rinse skin with water/shower

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position

comfortable for breathing

P305+P351+P338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing

P312 Call a POISON CENTER or doctor/physician if you feel unwell

P337+P313 If eye irritation persists: Get medical advice/attention

P370+P378 In case of fire: Use Water spray, CO2, dry chemical, or alcohol resistant foam to

extinauish

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-%
1-Methoxy-2-propanol	107-98-2	60-70
2-Propanol	67-63-0	30-40

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.

Skin: Wash off with soap and plenty of water. Consult a physician.

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

artificial respiration. Consult a physician.

Most important symptoms and effects

Symptoms Causes eye irritation. May be harmful if inhaled. May cause respiratory

tract irritation. Vapors may cause drowsiness and dizziness. May be

harmful if swallowed.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically

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5. FIREFIGHTING MEASURES

Suitable extinguishing media:

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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, 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 $^{\circ}$ C (40-90 $^{\circ}$ F). Incompatible with strong oxidizing agents, strong acids, strong bases, alkali metals and halogens.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Guidelines:

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Chemical Name and CAS#	ACGIH TLV	OSHA PEL	NIOSH IDLH
1-Methoxy-2-propanol	STEL: 150 ppm	TWA: 100 ppm	TWA: 100 ppm
107-98-2	TWA: 100 ppm	TWA: 360 mg/m ³	TWA: 360 mg/m ³
		STEL: 150 ppm	STEL: 150 ppm
		STEL: 540 mg/m ³	STEL: 540 mg/m ³
2-Propanol	TWA: 200 ppm	TWA: 400 ppm	IDLH: 2000 ppm
67-63-0	STEL: 400 ppm	TWA: 980 mg/m ³	TWA: 400 ppm
		STEL: 500 ppm	TWA: 980 mg/m ³
		STEL: 1225 mg/m ³	STEL: 500 ppm
			STEL: 1225 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.

General hygiene: Handle in accordance with good industrial hygiene and safety practice.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Values Remarks-Methods Property Physical state: Liquid Color: Colorless Odor: Moderate Odor threshold: Not determined pH: Not determined Melting point/freezing point: Not determined Boiling point/Boiling range: Not determined Flash point: 27.8 °C / 82 °F Tag Closed Cup **Evaporation Rate:** butyl acetate = 1 <1 Flammability (solid, gas): Not determined **Upper/lower flammability limits:** Not determined Vapor pressure: Not determined Vapor density: air = 1>1 Specific gravity: 0.9 water = 1Water solubility: Complete Solubility in other solvents: Not determined **Partition Coefficient:** Not determined **Auto-ignition Temperature:** Not determined **Decomposition temperature:** Not determined Viscosity: Not determined VOC Content (%): 100% **VOC Content:** 7.5 lbs/gal

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

Hazardous decomposition products:

Carbon 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 eye irritation

Skin contact: May cause skin irritation

Inhalation: May cause respiratory irritation. May cause drowsiness or dizziness.

Ingestion: May be harmful if swallowed

Component Information:

Chemical Name and CAS#	Oral LD50	Dermal LD50	Inhalation LC50
1-Methoxy-2-propanol 107-98-2	= 4,016 mg/kg (Rat)	>2,000 mg/kg (Rabbit)	= 25.8 mg/l (Rat)5h
2-Propanol 67-63-0	= 5,045 mg/kg (Rat)	= 12,800 mg/kg (Rabbit)	= 16,000 mg/m ³ (Rat) 8 h

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:

	=			
Chemical Name	ACGIH	IARC	NTP	OSHA
2-Propanol		Group 3		
67-63-0				

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

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12. ECOLOGICAL INFORMATION

Ecotoxicity:

Component Information

Chemical Name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
and CAS#			microorganisms	
1-Methoxy-2-propanol		LC50 - Pimephales promelas		EC50 - Daphnia magna –
107-98-2		– 20,800 mg/L – 96h		23,300 mg/L – 48h
2-Propanol	EC50 - Desmodesmus	LC50 - Pimephales promelas		EC50 - Daphnia magna –
67-63-0	subspicatus - 2000 mg/L -	– 9,640 mg/L – 96h		5,102 mg/L – 96h
	72h			Ţ.

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 1210

Proper shipping name PRINTING INK RELATED MATERIAL

Hazard class 3
Packing group III
ERG# 129

IATA

UN number 1210

Proper shipping name PRINTING INK RELATED MATERIAL

Hazard class 3 Packing group III

IMDG

UN number 1210

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Proper shipping name PRINTING INK RELATED MATERIAL

Hazard class 3
Packing group III
Marine pollutant No

SECTION 15 – REGULATORY INFORMATION

TSCA STATUS: All Components listed

OTHER REGULATORY:

SARA 302 SARA 311/312 **SARA 313 RECRA CERCLA** Ingredient(s) 1-Methoxy-2-propanol No F, A, C No No No 2-Propanol No F, A, C Yes No No

SARA 311/312 Codes: R = Reactive Hazard

P = 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:

Health: 2
Chronic Health Hazard *
Flammability: 3
Reactivity: 0

Revision Date 15-Jun-2015 **Replaces:** 08-May-2015

Revision Note: Update to Sections 2 and 4

Prepared by: Don Wright

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SDS# 100 Solvent

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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.