SDS# 100 Red Ink

Revision Date: 9/21/2018 SDS# 410002

# **1. PRODUCT IDENTIFICATION**

PRODUCT NAME: 100

PRODUCT COLOR: Red

RECOMMENDED USE: Coding & Marking

# Manufacturer/Supplier:

Diagraph Marking and Coding 5307 Meadowland Parkway, Marion IL 62959 Phone: :800-521-3047 Email: MSDS@diagraphmsp.com

## Emergency Telephone Number:

TRANSPORTATION:

INFOTRAC : 800-535-5053 (US only) +1-352-323-3500 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

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|          | H226             | Flammable liquid and vapor   |
|----------|------------------|--|
|          | H302             | Harmful if swallowed   |
|          | H315             | Causes skin irritation   |
|          | H318             | Causes serious eye damage  |
|          | H335             | May cause respiratory irritation   |
|          | H336             | May cause drowsiness or dizziness  |
| Precauti | onary Statements |  |
|          | P210             | Keep away from heat/sparks/open flames/hot surfaces. — No smoking  |
|          | P233             | Keep container tightly closed  |
|          | P242             | Use only non-sparking tools  |
|          | P243             | Take precautionary measures against static discharge   |
|          | P261             | Avoid breathing dust/fume/gas/mist/vapors/spray  |
|          | P264             | Wash skin thoroughly after handling  |
|          | P270             | Do not eat, drink or smoke when using this product   |
|          | P271             | Use only outdoors or in a well-ventilated area   |
|          | P280             | Wear protective gloves/protective clothing/eye protection/face protection  |
|          | 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.<br>Rinse continuously with water for several minutes. |
|          | 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  |
|          | 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  |
|          | P370+P378        | In case of fire: Use Water spray, CO2, dry chemical, or alcohol resistant foam to extinguish                                       |
|          | P362+P364        | Take off contaminated clothing and wash it before reuse  |
|          | P403+P235        | Store in a well-ventilated place. Keep cool  |
|          | 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.  |
| Skin:       | Remove contaminated clothing. Wash off with soap and plenty of water.<br>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

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

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<br>71-36-3       | TWA: 20 ppm   | TWA: 100 ppm<br>TWA: 300 mg/m <sup>3</sup>  | IDLH: 1400 ppm<br>Ceiling: 50 ppm<br>Ceiling: 150 mg/m <sup>3</sup><br>skin                                   |
| 1-Methoxy-2-propanol<br>107-98-2 | STEL: 150 ppm<br>TWA: 100 ppm   | TWA: 100 ppm<br>TWA: 360 mg/m <sup>3</sup><br>STEL: 150 ppm<br>STEL: 540 mg/m <sup>3</sup>  | TWA: 100 ppm<br>TWA: 360 mg/m <sup>3</sup><br>STEL: 150 ppm<br>STEL: 540 mg/m <sup>3</sup>                    |
| Ethyl Alcohol<br>64-17-5         | TWA: 1000 ppm   | TWA: 1000 ppm<br>TWA: 1900 mg/m <sup>3</sup>  | IDLH: 3300 ppm<br>TWA: 1000 ppm<br>TWA: 1900 mg/m <sup>3</sup>  |
| 2-Propanol<br>67-63-0            | STEL: 400 ppm<br>TWA: 200 ppm   | TWA: 400 ppm<br>TWA: 980 mg/m <sup>3</sup><br>STEL: 500 ppm<br>STEL: 1225 mg/m <sup>3</sup> | IDLH: 2000 ppm<br>TWA: 400 ppm<br>TWA: 980 mg/m <sup>3</sup><br>STEL: 500 ppm<br>STEL: 1225 mg/m <sup>3</sup> |
| Propyl Acetate<br>109-60-4       | TWA: 200 ppm<br>TWA: 840 mg/m <sup>3</sup><br>STEL: 250 ppm<br>STEL: 1025 mg/m <sup>3</sup> | TWA: 200 ppm<br>TWA: 840 mg/m <sup>3</sup><br>STEL: 250 ppm<br>STEL: 1050 mg/m <sup>3</sup> | IDLH: 1700 ppm<br>TWA: 200 ppm<br>TWA: 840 mg/m <sup>3</sup><br>STEL: 250 ppm<br>STEL: 1050 mg/m <sup>3</sup> |

## 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. |

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| 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**

| <u>Property</u><br>Physical state:<br>Odor:<br>Odor threshold:<br>pH:<br>Melting point/freezing point:<br>Boiling point/Boiling range:<br>Flash point:                          | Values<br>Liquid<br>Moderate<br>Not determined<br>Not determined<br>Not determined<br>23.3 °C / 74 °F | Remarks-Methods      |
|---|---|----------------------|
| Evaporation Rate:<br>Flammability (solid, gas):<br>Upper/lower flammability limits:<br>Vapor pressure:  | <1<br>Not determined<br>Not determined<br>Not determined  | butyl acetate = 1    |
| Vapor density:<br>Specific gravity:<br>Water solubility:<br>Solubility in other solvents:<br>Partition Coefficient:<br>Auto-ignition Temperature:<br>Decomposition temperature: | >1<br>0.9 - 0.98<br>Partially soluble<br>Not determined<br>Not determined<br>Not determined           | air = 1<br>water = 1 |
| Viscosity:<br>VOC Content (%):<br>VOC Content:  | 8-20 cps<br>90 %<br>6.7 – 7.3 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, 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  |
|---------------|--|
| 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<br>71-36-3       | = 790 mg/kg (Rat)   | = 5,620 mg/kg (Rabbit)  | >17.9 mg/l (Rat)4 h                  |
| 1-Methoxy-2-propanol<br>107-98-2 | = 4,016 mg/kg (Rat) | >2,000 mg/kg (Rabbit)   | = 25.8 mg/l (Rat)5h                  |
| Ethyl Alcohol<br>64-17-5         | = 2,000 mg/kg (Rat) | >2,000 mg/l (Rabbit)    | >20 mg/l (Mouse)4h                   |
| 2-Propanol<br>67-63-0            | = 5,045 mg/kg (Rat) | = 12,800 mg/kg (Rabbit) | = 16,000 mg/ m <sup>3</sup> (Rat)8 h |
| Propyl Acetate<br>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:

| Chemical Name | ACGIH | IARC | NTP | OSHA |
|---------------|-------|------|-----|------|
| None          |       |      |     |      |
|               |       |      |     |      |

#### Legend

ACGIH (American Conference of Governmental Industrial Hygienists) A1 – Confirmed human carcinogen A2 – Suspected human carcinogen A3 - Confirmed animal carcinogen with unknown relevance to humans IARC (International Agency for Research on Cancer) Group 1 - Carcinogenic to Humans Group 2A – Probably Carcinogenic to Humans Group 2B – Limited evidence of carcinogenicity 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:

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## **Component Information**

| Chemical Name<br>and CAS#        | Algae/aquatic plants   | Fish  | Toxicity to<br>microorganisms | Crustacea                                   |
|----------------------------------|--|---|-------------------------------|---|
| n-Butyl Alcohol<br>71-36-3       | No data  | LC50 - Pimephales promelas<br>– 1,376 mg/L - 96 h   | No data                       | EC50 - Daphnia magna –<br>1,328 mg/L - 48 h |
| 1-Methoxy-2-propanol<br>107-98-2 | No data  | LC50 - Pimephales promelas<br>– 20,800 mg/L – 96h   | No data                       | EC50 - Daphnia magna –<br>23,300 mg/L – 48h |
| Ethyl Alcohol<br>64-17-5         | EC50 – Chlorella vulgaris -<br>>100 mg/L – 72h                 | LC50 - Pimephales promelas<br>– 15,300 mg/L – 96h   | No data                       | EC50 - Daphnia magna - ><br>100 mg/L – 24h  |
| 2-Propanol<br>67-63-0            | EC50 - Desmodesmus<br>subspicatus - 2000 mg/L –<br>72h         | LC50 - Pimephales promelas<br>– 9,640 mg/L – 96h    | No data                       | EC50 - Daphnia magna –<br>5,102 mg/L – 96h  |
| Propyl Acetate<br>109-60-4       | EC50 - Pseudokirchneriella<br>subcapitata - >100 mg/L –<br>72h | LC50 - Pimephales promelas<br>– > 10-100 mg/L – 96h | No data                       | EC50 - Daphnia magna -<br>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<br>Proper shipping name<br>Hazard class<br>Packing group<br>ERG# | 1210<br>PRINTING INK<br>3<br>III<br>129 |
|------|--|---|
| ΙΑΤΑ | UN number<br>Proper shipping name<br>Hazard class<br>Packing group         | 1210<br>PRINTING INK<br>3<br>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         | Yes             | U031         | No            |
| 1-Methoxy-2-propanol | No              | F, A         | No              | No           | No            |
| Ethyl Alcohol        | No              | F, A         | No              | No           | No            |
| 2-Propanol           | No              | F, A, C      | Yes             | No           | No            |
| Propyl Acetate       | No              | F, A         | No              | 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:2Chronic Health Hazard\*Flammability:3Reactivity:0

Revision Date:21-Sept-2018Replaces:26-Apr-2018Revision Note:Review and update. Changes to Sections 2, 4, 8, 11, 12, 15

Prepared by: Don Wright

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