

1. PRODUCT IDENTIFICATION

PRODUCT NAME: #100 Solvent
 PRODUCT COLOR: Clear
 RECOMMENDED USE: Coding and Marking

Manufacturer/Supplier:

Universal Stenciling & Marking System, Inc. 1-727-894-3027
 205 15th Avenue S.E.
 Saint Petersburg, FL 33701
 USA

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 |
| 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 |

Precautionary Statements

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| 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 | 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 extinguish |
| P403+233 | Store in a well-ventilated place. Keep container tightly closed |
| P501 | Dispose of contents/container to an approved waste disposal plant |

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| 3. COMPOSITION AND INFORMATION ON INGREDIENTS |
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| Chemical Name | CAS No | Weight-% |
|----------------------|----------|----------|
| 1-Methoxy-2-propanol | 107-98-2 | 60-70 |
| 2-Propanol | 67-63-0 | 30-40 |

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| 4. FIRST AID MEASURES |
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First Aid Measures

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| 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

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| 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. |
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Indication of any immediate medical attention and special treatment needed

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|---------------------------|-----------------------|
| 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, 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, then 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 or 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:

SAFETY DATA SHEET

SDS# 100 Solvent

Revision Date: 6/15/2015

| Chemical Name and CAS# | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|----------------------------------|-------------------------------|---|---|
| 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 |
| 2-Propanol 67-63-0 | TWA: 200 ppm STEL: 400 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 |

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.

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| SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES |
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| <u>Property</u> | <u>Values</u> | <u>Remarks-Methods</u> |
|----------------------------------|-----------------|------------------------|
| 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: | <1 | butyl acetate = 1 |
| Flammability (solid, gas): | Not determined | |
| Upper/lower flammability limits: | Not determined | |
| Vapor pressure: | Not determined | |
| Vapor density: | >1 | air = 1 |
| Specific gravity: | 0.9 | water = 1 |
| Water 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 | |

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| 10. STABILITY AND REACTIVITY |
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SAFETY DATA SHEET

Revision Date: 6/15/2015

SDS# 100 Solvent

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

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|----------------------|--|
| 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 67-63-0 | | Group 3 | | |

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 |
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Ecotoxicity:**Component Information**

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

Persistence/Degradability:

Not determined

Bioaccumulation:

Not determined

Mobility:

Not determined

Other Adverse Effects:

No data available

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| 13. DISPOSAL CONSIDERATIONS |
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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.

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| SECTION 14 – TRANSPORTATION INFORMATION |
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DOT

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|-----------------------------|-------------------------------|
| 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 |
|------------------|------|

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:

| <u>Ingredient(s)</u> | <u>SARA 302</u> | <u>SARA 311/312</u> | <u>SARA 313</u> | <u>RECRA</u> | <u>CERCLA</u> |
|----------------------|-----------------|---------------------|-----------------|--------------|---------------|
| 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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