

MATERIAL SAFETY DATA SHEET

MSDS# 0107-01

Revision Date: 4/14/2011

SECTION 1 – PRODUCT IDENTIFICATION

PRODUCT NUMBER: Universal #100
PRODUCT COLOR: Black
PRODUCT USE: Coding, marking, stenciling
FORMULA: Proprietary Mixture

Supplier:

Universal Stenciling & Marking Systems, Inc. (727) 894-3027
205 15th Avenue S.E.
Saint Petersburg, FL 33701

Emergency Telephone Number:

TRANSPORTATION: CHEMTREC (800) 424-9300

SECTION 2 – HEALTH HAZARDS IDENTIFICATION

Emergency Overview: As noted in the preface to published values adopted by the ACGIH, TLV's represent conditions under which it is believed that nearly all workers may be repeatedly exposed day after day without adverse effect. Because of wide variation in individual susceptibility however, a small percentage of workers may experience discomfort from some substances at concentrations at or below the threshold limit; a smaller percentage may be affected more seriously by aggravation of a pre-existing condition or by development of occupational illness."

Precautions: WARNING! FLAMMABLE LIQUID AND VAPOR. MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION. MAY BE HARMFUL IF SWALLOWED.

Potential Health Effects

INGESTION: Slightly irritating to gastrointestinal tract. May cause headache, diarrhea, drowsiness, breathing difficulties, nausea, vomiting.

EYES: Slightly irritating. May cause redness and/or blurred vision.

SKIN: Slightly irritating. Prolonged or widespread contact may lead to defatting or dermatitis.

INHALATION: Moderately irritating to nasal and respiratory tracts. May cause headache, drowsiness, dizziness, breathing difficulties, nausea.

Listed Carcinogen: Ingredients which appear on lists of known or suspected carcinogens appear below:

| <u>Ingredient</u> | <u>PROP 65</u> | <u>IARC</u> | <u>NTP</u> | <u>OSHA</u> |
|-------------------|----------------|-------------|------------|-------------|
| NONE | | | | |

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SECTION 3 – COMPOSITION AND INFORMATION ON INGREDIENTS

Listed below are all the hazardous ingredients, with CAS# and hazard data, of this mixture. In the event of a medical emergency, specific chemical information will be made immediately available to a treating physician or nurse.

| <u>Ingredient</u> | <u>CAS Number</u> | <u>Weight %</u> |
|-------------------|-------------------|-----------------|
| n-Butyl Alcohol | 71-36-3 | 20-40 |
| Glycol Ether PM | 107-98-2 | 15-30 |
| Ethyl Alcohol | 64-17-5 | 5-25 |
| Isopropyl Alcohol | 67-63-0 | 5-15 |
| n-Propyl Alcohol | 71-23-8 | 0-5 |

SECTION 4 – FIRST AID MEASURES

INGESTION: If swallowed, call a physician or poison control center. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

EYES: Flush immediately with water for at least 15 minutes. Seek medical attention.

SKIN: Remove contaminated clothing. Thoroughly wash with soap and large amounts of water. Seek medical attention.

INHALATION: Remove to fresh air. Seek medical attention if any adverse symptoms appear.

SECTION 5 – FIREFIGHTING MEASURES

FLASH POINT (°F, TCC): 74

EXTINGUISHING MEDIA: Water fog, Multipurpose foam, Dry chemical, CO₂

PRECAUTIONS FOR FIREFIGHTING:

Fight as volatile liquid fire
Water spray may spread fire.
Vapors are dense and may travel to remote ignition source

HAZARDOUS COMBUSTION PRODUCTS:

CO_x, NO_x, other harmful fumes

SECTION 6 – ACCIDENTAL RELEASE MEASURES

SPILL OR LEAK PROCEDURES: Secure area and remove all sources of ignition and heat. Prevent additional discharge of material. Absorb small spills with sand, filter-aid, vermiculite or other inert absorbent material, then place in a chemical waste container. For large spills, prevent material from entering sewers or water courses. Contain spill with sand, or earth dikes. Recover as much as possible by pumping. Treat remainder as a small spill. Dispose of waste in accordance with applicable government regulations. Wear chemical goggles, gloves, boots, and protective clothing. Wear respirator if necessary.

SECTION 7 – HANDLING AND STORAGE

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HANDLING AND STORAGE PRECAUTIONS: Avoid contact with eyes. Store in tightly closed container away from heat, sparks, open flame, or strong oxidizing agents. Containers must be properly grounded and adequate ventilation provided. Unscrew all caps slowly. Do not unscrew entirely until all pressure has been completely released. Emptied containers may retain residues. Precautions apply to emptied containers.

OTHER PRECAUTIONS: Use only with adequate ventilation. Dispose of "empty" containers promptly and properly.

STORAGE TEMPERATURE: 40 – 90 °F

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

EYE PROTECTION: Eye protection such as chemical splash goggles and/or face shield must be worn when possibility exists for eye contact due to splashing or spraying liquid, airborne particles or vapor.

SKIN PROTECTION: Depending on the conditions of use, chemical protective gloves (such as nitrile or butyl), clothing boots, head and face protection should be worn.

RESPIRATORY/VENTILATION: If workplace exposure limits of product or any component is exceeded, NIOSH/MSHA approved respiratory protection must be used. For emergency and other conditions where exposure limit may be greatly exceeded, use an approved positive-pressure, self-contained breathing apparatus or positive-pressure line with auxiliary self-contained air supply.

ENGINEERING CONTROLS: Provide local exhaust or general room ventilation to minimize exposure to vapors.

EXPOSURE CONTROLS:

| <u>Ingredient</u> | <u>OSHA PEL</u> | <u>ACGIH TLV</u> | <u>NIOSH REL</u> |
|-------------------|-----------------|------------------|------------------|
| n-Butyl Alcohol | 100 ppm TWA | 20 ppm TWA | 50 ppm |
| Glycol Ether PM | 100 ppm TWA | 100 ppm TWA | 100 ppm |
| Ethyl Alcohol | 1000 ppm TWA | 1000 ppm TWA | 1000 ppm |
| Isopropyl Alcohol | 400 ppm TWA | 200 ppm TWA | 400 ppm |
| n-Propyl Alcohol | 200 ppm TWA | 100 ppm TWA | 200 ppm |

PEL= Permissible Exposure Limit
TLV= Threshold Limit Value
REL= Recommended Exposure Limit

TWA= Time Weighted Average (8 hr)
STEL= Short Term Exposure Limit (15 min)

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|----------------|
| PHYSICAL FORM: | Liquid |
| ODOR: | Moderate |
| BOILING POINT (°F): | Not Determined |
| VAPOR PRESSURE (MM Hg): | Not Determined |
| VAPOR DENSITY (Air=1): | >1 |
| SOLUBILITY IN WATER: | Partial |
| SPECIFIC GRAVITY (H₂O=1): | 0.89 |

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% VOLATILE BY VOLUME: 90
EVAPORATION RATE (nBuAcet=1): <1
VOC: 7.3 lbs/gal

SECTION 10 – STABILITY AND REACTIVITY

STABLE: Yes
HAZARDOUS POLYMERIZATION: No
INCOMPATIBILITIES: Strong oxidizing agents, strong acids, strong bases, alkali metals, halogens

SECTION 11 – TOXICOLOGICAL INFORMATION

No Data Available

SECTION 12 – ECOLOGICAL INFORMATION

No data available

SECTION 13 – DISPOSAL CONSIDERATIONS

Consult Federal, State, and Local regulations for accepted procedures of disposal, and any reporting or notification requirements.

SECTION 14 – TRANSPORTATION INFORMATION

DOT SHIPPING NAME: Printing Ink
DOT HAZARD CLASS: 3
PACKING GROUP: III
UN NUMBER: UN1210
ERG NUMBER: 129

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SECTION 15 – REGULATORY INFORMATION

TSCA STATUS: 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> |
|----------------------|-----------------|---------------------|-----------------|--------------|---------------|
| n-Butyl Alcohol | No | F, A, C | No | U031 | No |
| Glycol Ether PM | No | F, A | No | No | No |
| Ethyl Alcohol | No | F,A | No | No | No |
| Isopropyl Alcohol | No | F,A | No | No | No |
| n-Propyl Alcohol | No | F, C | No | No | No |

SARA 311/312 Codes: R = Reactive Hazard
P = Pressure Hazard
F = Fire Hazard
A = Immediate/Acute
C = Delayed/Chronic

SECTION 16 – OTHER INFORMATION

HMIS:

Health: 2
Flammability: 3
Reactivity: 0

Prepared by: Thomas S. Sweet

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