

MATERIAL SAFETY DATA SHEET

MSDS# 0100-01

Revision Date: 4/14/2011

SECTION 1 – PRODUCT IDENTIFICATION

PRODUCT NUMBER: Universal #100
PRODUCT COLOR: Red, Blue, Green, Violet
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:

Ingredient
NONE

PROP 65

IARC

NTP

OSHA

MATERIAL SAFETY DATA SHEET

MSDS# 0100-01

Revision Date: 4/14/2011

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	10-20
Ethyl Alcohol	64-17-5	5-25
Isopropyl Alcohol	67-63-0	5-15

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, organic combustion products

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.

MATERIAL SAFETY DATA SHEET

MSDS# 0100-01

Revision Date: 4/14/2011

SECTION 7 – HANDLING AND STORAGE

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

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

MATERIAL SAFETY DATA SHEET

MSDS# 0100-01

Revision Date: 4/14/2011

SOLUBILITY IN WATER: Appreciable

SPECIFIC GRAVITY (H₂O=1): 0.98

% VOLATILE BY VOLUME: 90

EVAPORATION RATE (nBuAcet=1): <1

VOC: 5.8 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

MATERIAL SAFETY DATA SHEET

MSDS# 0100-01

Revision Date: 4/14/2011

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

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

DISCLAIMER OF LIABILITY

As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for any use of the material described in this MSDS. Information contained herein is given in good faith and believed to be true and accurate, but all statements or suggestions are made without warranty, expressed or 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 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.