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SECTION 1 -- CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

CODE: V5000NL

TRADE NAME...: VERSACON(R) CLASSIC CONTAINER SCREEN INK

- H M I S C O D E S -
HEALTH - 3*
FLAMMABILITY - 2
REACTIVITY - 0
PPE - X

PRODUCT CLASS: SCREEN INK (TWO-PART)

INK SERIES....:

Item Description	WT lb/gal	VOC g/L	VOC lb/gal	% VOC volume	Item Description	WT lb/gal	VOC g/L	VOC lb/gal	% VOC volume
V5010 PRIMROSE YELLOW	9.8	495	4.1	53	V5012 MEDIUM YELLOW	9.3	486	4.1	52
V5019 FIRE RED	8.9	491	4.1	52	V5026 MIXING CLEAR	8.8	529	4.4	56
V5052 SUPER OPAQUE BLACK	8.8	518	4.3	55	V5075 SUPER OPAQUE WHITE	12.3	461	3.8	49
V50185 GOLD	9.8	502	4.2	53	V50186 COPPER	9.8	505	4.2	54
V50187 SILVER	9.2	521	4.3	55	V50358 TINTING WHITE	12.3	461	3.8	49
V50359 TINTING BLACK	8.8	524	4.4	56	V50360 ORANGE	9.1	496	4.1	53
V50361 YELLOW	8.9	495	4.1	53	V50362 WARM RED	8.8	520	4.3	55
V50363 RUBINE RED	8.8	509	4.2	54	V50364 RHODAMINE	8.8	516	4.3	55
V50365 PURPLE	8.8	517	4.3	55	V50366 VIOLET	8.7	524	4.4	56
V50367 REFLEX BLUE	8.8	517	4.3	55	V50368 PROCESS BLUE	8.8	516	4.3	55
V50369 GREEN	9.0	518	4.3	55		.0	0	.0	0
V5078 High Intensity White	13.1	391	3.3	38	V5079 High Intensity Black	9.0	447	3.7	43

SECTION 2 -- COMPOSITION, INFORMATION ON INGREDIENTS

CHEMICAL NAME; COMMON NAME; CAS NUMBER	PERCENT BY WEIGHT	OCCUPATIONAL EXPOSURE LIMITS		VAPOR PRESSURE IN mmHg	NOTES
		-----ACGIH----- TLV	-----OSHA----- PEL		
RESIN MIXTURES; CAS #: NOT AVAILABLE	26-43	NOT ESTABLISHED	NOT ESTABLISHED	<1 @ 20C	
DIPROPYLENE GLYCOL METHYL ETHER; ALIPHATIC GLYCOL ETHER; CAS #: 34590-94-8	13-22	100 ppm STEL: 150 ppm Skin	100 ppm STEL: 150 ppm Skin	0.4 @ 25C	
PIGMENTS; MIXTURE; CAS #: NOT AVAILABLE	< 20	10 mg/m3	15 mg/m3 Total dust	N/A	(1)
* 2-BUTOXYETHANOL; ETHYLENE GLYCOL MONOBUTYL ETHER; CAS #: 111-76-2	9-16	20 ppm	25 ppm Skin	0.6 @ 20C	
* N-BUTANOL; N-BUTYL ALCOHOL; CAS #: 71-36-3	7-13	20 ppm	100 ppm Ceiling: 50 ppm Skin	4.4 @ 20C	
* FORMALDEHYDE; CAS #: 50-00-0	< .75	NOT ESTABLISHED	.750 ppm STEL: 2 ppm	10 @ -88C	(2)
TITANIUM DIOXIDE; CAS #: 13463-67-7	0-45	10 mg/m3	10 mg/m3	N/A	
ALUMINUM COMPOUNDS; CAS #: 7429-90-5	0-11	10 mg/m3	15 mg/m3 Total Dusts	N/A	(3)
CARBON BLACK; PIGMENT BLACK; CAS #: 1333-86-4	0-10	3.500 mg/m3	3.500 mg/m3	N/A	
PETROLEUM DISTILLATE; ALIPHATIC HYDROCARBON; CAS #: 8052-41-3	0-3	100 ppm	100 ppm	2.0 @ 20C	(4)

PETROLEUM DISTILLATE; AROMATIC HYDROCARBON; CAS #: 64742-95-6	0-2	NOT ESTABLISHED	NOT ESTABLISHED	3.0 @ 20C
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* SUBJECT TO REPORTING REQUIREMENT OF SECTION 313 OF TITLE III OF SARA (40 CFR PART 372).

- 1) The above ACGIH TLV exposure limit of 10 mg/m3 is for inhalable fraction. See Section 8 Exposure Controls, Personal Protection - Exposure Guidelines for more information on exposure limits.
- 2) ACGIH has set a Ceiling value of 0.3 ppm.
This chemical is included on the list of Hazardous Air Pollutants (HAPs) from Title III of the Clean Air Act Amendments of 1990.
- 3) CAS # and exposure limits are for total aluminum dust. 5 mg/m3 exposure limit for respirable fraction.
- 4) Exposure limits are for Stoddard Solvent CAS# 8052-41-3.

The recommended permissible exposure limits (PEL) indicated above reflect the levels adopted by OSHA in 1989. Although, some of the 1989 levels have since been vacated, the Nazdar Company recommends that the lower exposure levels be observed as reasonable worker protection.

NOTE: Aluminum compounds is contained only in V50185, V50186 and V50187.

NOTE: Petroleum Distillate #8052-41-3 and Petroleum Distillate #64742-95-6 are contained only in V50187.

SECTION 3 -- HAZARDS IDENTIFICATION

GENERAL HEALTH EFFECTS

THE FOLLOWING INFORMATION HAS BEEN DEVELOPED BASED UPON USING THE PRODUCT AS INTENDED BY THE MANUFACTURER. The potential health effects of this product are based on the hazards of its components. The use of this product in combination with other products may produce synergistic (additive) health effects. Cautionary labeling and material safety data sheets of all materials used with this product should be reviewed before use.

EYES

Eye contact with liquid, vapors or mists may cause severe irritation, including burning, tearing, redness or swelling and reversible eye damage.

SKIN

Skin contact may cause irritation. Symptoms may include dryness, chapping and redness. Penetrates the skin readily. Toxic and may be harmful if absorbed through the skin.

INHALATION

Inhalation may cause respiratory tract irritation. Repeated and prolonged overexposure by inhalation may cause respiratory tract irritation. Symptoms may include central nervous system disorders such as headaches, dizziness, weakness and fatigue.

INGESTION

Ingestion may cause gastrointestinal tract irritation. Symptoms may include headaches, nausea and vomiting. Contains material that may be moderately toxic if ingested.

CHRONIC EFFECTS/TARGET ORGANS

Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. N-butanol has been suggested, after overexposure, as a cause of the following effects in humans, and may aggravate pre-existing disorders of these organs; anemia, effects on hearing. Formaldehyde is included in the NTP and IARC (Group 2A) list of probable carcinogens.

ANIMAL STUDIES

Dipropylene glycol methyl ether has been suggested to cause the following effects, after overexposure, in lab animals, and may aggravate pre-existing disorders of these organs in humans; mild, reversible liver and kidney effects. 2-Butoxyethanol has caused reproductive and blood disorders resulting in kidney, liver and lung damage in lab animals. N-butanol has been suggested, after overexposure, to cause kidney damage and lung and liver damage in lab animals. N-butanol has been shown to cause harm to the fetus in lab animal studies. Harm to the fetus occurs only at exposure levels that harm the pregnant animal. The relevance of these findings to humans is uncertain. For animal studies, reference TSCA Section 4 Test Rule Results or contact the manufacturer for further details.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

Pregnant women and persons with pre-existing health disorders should consult their physician before using this product. Repeated and prolonged overexposure and/or individual sensitivity may increase the potential for and degree of adverse health effects. See Section 3 "Hazards Identification" for effects of certain hazardous ingredients.

ROUTES OF EXPOSURE

Primary exposure routes: Inhalation-Dermal (Contact/Absorption)-Ingestion

SECTION 4 -- FIRST AID MEASURES

EYES

After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. If irritation persists have

eyes examined and tested by medical personnel.

SKIN

In case of contact, immediately wash skin with a mild soap and plenty of water for at least 15 minutes, while removing contaminated clothing and shoes. Cool water is initially suggested to prevent the pores of the skin from opening. This will minimize both the area and time of skin contact. Lukewarm water may then be used to ensure all contaminants are removed. Skin should be monitored for reddening or chemical burns. Mild soap is suggested to help prevent abrading the skin or rubbing the chemicals into pores during cleansing. Get medical attention if irritation persists or significant contact has occurred. Thoroughly wash (or discard) clothing and shoes before reuse.

INHALATION

Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention if breathing difficulty is experienced.

INGESTION

If swallowed, do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

OTHER COMMENTS

No Data Available

SECTION 5 -- FIRE FIGHTING MEASURES

FLASH POINT

115 Degrees - 120 Degrees (PMCC)

OSHA FLAMMABILITY CLASSIFICATION (NFPA)

Class II Combustible Liquid

LEL - LOWER EXPLOSIVE LIMIT / UEL - UPPER EXPLOSIVE LIMIT

1.1% volume in air / No Data Available

EXTINGUISHING MEDIA

Foam-CO2-Dry Chemical-Water Spray

FIRE AND EXPLOSION HAZARDS

Isolate from heat, electrical equipment, sparks, and open flame. Keep containers tightly closed. Vapors may be heavier than air and can travel to a source of ignition then flash back. Closed containers may explode when exposed to extreme heat.

FIRE FIGHTING EQUIPMENT

Full protective equipment including self-contained breathing apparatus (SCBA) is recommended to protect firefighters.

SPECIAL FIRE FIGHTING PROCEDURES

Water may be ineffective but may be used to cool containers. Fumes released on burning may be toxic and dangerous.

SECTION 6 -- ACCIDENTAL RELEASE MEASURES

RELEASE MANAGEMENT MEASURES

Remove all sources of ignition (flames, hot surfaces and electrical, static or frictional sparks). Avoid contact or breathing vapors. Ventilate area. Contain release and remove with inert absorbent. Use non-sparking tools to place material in appropriate container for disposal. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. The National Response Center (800-424-8802) and local authorities should be contacted for any reportable spill/release.

SECTION 7 -- HANDLING AND STORAGE

HANDLING AND STORAGE METHODS

Use in a well ventilated area. Follow all MSDS/label precautions even after container is emptied; container may retain product residues. Store in closed containers in cool, dry, well ventilated area away from sources of ignition. Keep containers closed when not in use. Smoke in designated areas only. Avoid prolonged or repeated overexposure to this product. Keep out of reach of children. Follow label directions carefully. Do not take internally. Harmful or fatal if swallowed.

SECTION 8 -- EXPOSURE CONTROLS, PERSONAL PROTECTION

RESPIRATORY PROTECTION

If concentrations of hazardous ingredients exceed exposure limits listed in Section 2 an appropriate NIOSH (National Institute for Occupational Safety and Health) approved respirator with an organic vapor cartridge should be used. If material is handled under mist, spray or dust forming conditions, a P100 (99.97% efficiency) filter should be used in addition to the organic vapor cartridge. Protection provided by air-purifying respirators is limited. If no exposure limits are listed in Section 2, follow general safety guidelines in 29 CFR 1910.134 Respiratory Protection or other applicable respiratory standard.

SKIN PROTECTION

Use neoprene, nitrile or other gloves resistant to chemicals listed in Section 2. Contact a reputable safety supply company for appropriate gloves. Solvent resistant aprons are recommended. Prevent prolonged skin contact with contaminated clothing.

EYE PROTECTION

Use ANSI (American National Standards Institute) approved safety glasses, faceshield or splash proof goggles to prevent eye contact. Contact a reputable safety supply company for appropriate eye protection. The availability of an eye wash is highly recommended.

EXPOSURE GUIDELINES

See Section 2 "Composition, Information on Ingredients" for occupational exposure limits. Excessive concentrations of nuisance dusts or particulates not otherwise classified (PNOC) or regulated (PNOR) may reduce visibility and cause unpleasant deposits in the eyes, ears, and nasal passages. The TLV and PEL has been established for all non-toxic "nuisance dusts" that are not otherwise classified and refers to both organic and inorganic dusts. Exposure or generation of these dusts is not anticipated during normal printing operations. The use of dry pigments and powders, grinding or sanding of printed products may generate quantities of these particulates. Refer to Section 2 Composition, Information on Ingredients for exposure limits.

HYGIENIC PRACTICES

Wash with soap and water before eating, smoking or using toilet facilities. Separately wash or discard clothing and footwear before reuse. NEVER try to remove product from the skin by using solvent or thinner. Such action is likely to increase the possibility of undesirable effects. Remove contaminated clothing to prevent prolonged skin contact.

ENGINEERING CONTROLS

Use applicable engineering controls, work practices and personal protective equipment to ensure all concentrations are kept below the exposure limits listed in Section 2. Adequate controls should be implemented to ensure employee safety from fine mists which may be produced under some printing conditions.

OTHER PROTECTION

No Data Available

SECTION 9 -- PHYSICAL AND CHEMICAL PROPERTIES

********APPEARANCE:**

Viscous liquid

ODOR:

Characteristic

PHYSICAL STATE:

Liquid

pH

Not applicable

VAPOR PRESSURE

See Section 2 for individual ingredients.

VAPOR DENSITY

Heavier than air

BOILING POINT

Greater than 300 degrees Fahrenheit

FREEZING POINT

Not available

SOLUBILITY IN WATER

Not tested

EVAPORATION RATE

Slower than ether

VISCOSITY

Greater than water

PERCENT VOLATILE BY VOLUME: SEE SECTION ONE

WEIGHT PER GALLON: SEE SECTION ONE

VOC: SEE SECTION ONE

PHOTOCHEMICALLY REACTIVE

No

Percent volatile = Percent VOC

SECTION 10 -- STABILITY AND REACTIVITY

CHEMICAL STABILITY

Stable

CONDITIONS TO AVOID

Avoid excessive heat, ignition sources, sparks and open flame.

INCOMPATIBILITY WITH OTHER MATERIALS

Strong acids/bases, oxidizing/reducing agents and reactive chemicals.

HAZARDOUS DECOMPOSITION PRODUCTS

May produce hazardous fumes when heated to decomposition e.g. carbon monoxide, carbon dioxide and other noxious gases.

HAZARDOUS POLYMERIZATION

Not anticipated during normal printing and storage conditions.

SECTION 11 -- TOXICOLOGICAL INFORMATION

EXPERIMENTAL TOXICITY DATA

Refer to Section 3 Hazards Identification for additional toxicological data. Experimental toxicity data on dipropylene glycol methyl ether has given the following results: Oral LD50 Rat; 5.4 ml/kg; Dermal LD50 Rabbit; > 20 ml/kg. Experimental toxicity data on 2-butoxyethanol has given the following results: Oral LD50 Rat; 1746 mg/kg; Intraperitoneal LD50 Rat; 550 mg/kg.

SECTION 12 -- ECOLOGICAL INFORMATION

ECOTOXICITY

Because this product may be a mixture of chemicals, some of which may be ecologically toxic, it is strongly suggested that it not be disposed of into the environment, i.e. soil, water courses, lakes, landfills, sewers, etc.

ENVIRONMENTAL FATE

No Data Available

SECTION 13 -- DISPOSAL CONSIDERATIONS

DISPOSAL METHODS

This product, as supplied, is considered non-hazardous for disposal purposes by the U.S. Environmental Protection Agency Resource Conservation and Recovery Act (RCRA). If combined with other products, the user should determine if hazardous waste codes are required. It is the responsibility of the user to determine if local, county, state, or provincial regulations may also apply to the disposal of this product and/or the container.

SECTION 14 -- TRANSPORT INFORMATION

TRANSPORT INFORMATION

DOT Proper Shipping Description: Printing Ink, 3, UN1210, PG III. In the U.S. and Canada, this material may be reclassified as a combustible liquid and is not regulated, via surface transportation, in containers less than 119 gallons or 450 liters [per 49 CFR 173.150(f)] [per Transportation of Dangerous Goods Regulations/Clear Language Part 1.33].

SECTION 15 -- REGULATORY INFORMATION

SARA TITLE III 313 INFORMATION

See Section 2 "Composition, Information on Ingredients" for applicable chemicals.

TOXIC SUBSTANCES CONTROL ACT STATUS

All ingredients in Section 2 are listed on the U.S. Environmental Protection Agency's Toxic Substances Control Act (TSCA) Inventory and the Canadian Domestic Substance List.

OTHER REGULATORY INFORMATION

OCCUPATIONAL SAFETY and HEALTH ADMINISTRATION (OSHA) - MSDS is compliant with Occupational Safety and Health Administration Hazard Communication Standard - 29 CFR 1910.1200. AMERICAN NATIONAL STANDARDS INSTITUTE - This MSDS follows the ANSI Z400.1-1998 format. WORKPLACE HAZARDOUS MATERIAL INFORMATION SYSTEM (WHMIS) - This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS CLASSIFICATION (CANADA):

No Data Available

SECTION 16 -- OTHER INFORMATION

DISCLOSURE

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind express or implied is made with respect to the information contained herein. The data in this MSDS relates only to the specific material designated herein and does not apply to use in combination with any other material or process.

DEFINITIONS

ACGIH: American Conference of Governmental Industrial Hygienists

AIHA: American Industrial Hygiene Association

CEILING: (TLV-Ceiling and PEL Ceiling Limit) The ceiling exposure limit or concentration not to be exceeded for even brief times.

DOT: Department of Transportation

HMIS: The Hazardous Materials Identification System (HMIS) developed by the National Paint and Coatings Association (NPCA) to provide information on the acute health hazards, reactivity and flammability of products encountered in the workplace at room temperatures.

HMIS codes assigned for this product are only suggested ratings based on anticipated normal screen printing applications. The employer has the ultimate responsibility for assigning these ratings and should fully evaluate the MSDS, work practices and environmental conditions prior to assigning the appropriate ratings.

HMIS rating involves data interpretations that may vary from company to company.

HMIS Personal Protection Index of "X-Ask your supervisor" is given on this MSDS due to varying work conditions which may dictate different levels of protection. Please review this MSDS before determining appropriate protective equipment and beginning work.

IARC: International Agency for Research on Cancer

NFPA: National Fire Protection Association

NTP: National Toxicology Program

STEL: Short-Term Exposure Limit: ACGIH terminology for the short-term exposure limit or maximum concentration for a continuous exposure period of 15 minutes.

TLV: Threshold Limit Value. A term ACGIH uses to express the airborne concentration of a material to which most workers can be exposed during a normal daily and weekly work schedule without adverse effects.

TWA: Time-Weighted Average

VOC: Volatile Organic Compound