



Liberty Marking Systems, Inc.
7265 Edington Dr.
Cincinnati, OH 45249

513-530-9270 FAX 513-530-9272

HCL 2452
1/13/00
Product Data Sheet

To: Mary Watson
From: Linda

403 White Thermal Transfer Paper

Series 403 is a premier absorbent ultra smooth white thermal transfer label stock with a permanent acrylic adhesive, backed with a coated kraft liner.

This product is designed for use in standard and high speed thermal transfer printers and features a bright white appearance along with high resistance to abrasion and smearing.

Face Stock:

Base Weight (24 X 36 - 500 sheets):	48.0# ± 4.0#
Caliper:	3.2 mil (81 micron) ± 0.3 mil
Color:	White
Opacity:	78% minimum

Liner:

Type:	Super Calendered Kraft
Color:	White
Base Weight:	43.0# ± 3.7#
Caliper:	2.5 mil (64 micron) ± 0.2 mil

Adhesive:

Type:	Permanent Acrylic
Service Temperature:	-40° F to 200° F (-40° C to 93° C)
Application Temperature:	32° F to 120° F (0° C to 49° C)

Product Performance and Suitability

All of the descriptive information and recommendations for the use of Liberty Marking Systems products are to be used only as a guide. The furnishing of such information and recommendations shall in no event constitute a warranty of any kind by Liberty Marking Systems. All purchasers of Liberty Marking Systems products shall independently determine the suitability of the material for the purpose for which it is purchased. No distributor, salesman, or representative of Liberty Marking Systems is authorized to give any warranty, guarantee, or to make any representation in addition or contrary to the above.

ost-it* Fax Note	7671	Date	1/13	# of pages	4
to	Mary Watson	From			
cc	Health Care Logistics	Co.	Sohn Mfg.		
Phone #		Phone #			
Fax #	740-477-3859	Fax #			

INC
HEET

H M I S RATING	
HEALTH	1
FLAMMABILITY	1
REACTIVITY	0
PPE	A

SECTION I - CHEMICAL IDENTIFICATION & MANUFACTURER INFORMATION

PRODUCT NAME: Sohn Water Based Ink PRODUCT NO.: 04-99996
 Yellow F200 Series
 DISTRIBUTED BY: Sohn Manufacturing, Inc.
 544 Sohn Drive
 Elkhart Lake, WI 53020
 EMERGENCY PHONE #: 414-876-3361 SOHN D-U-N-S NO. 00-610-3972
 LAST DATE UPDATED: 01/05/96 NAME OF PREPARER: Sohn Mfg. Inc.,
 D. O. T NAME/HAZARD/ID: Water Based Printing Ink Non-Hazardous N/A
 CHEMICAL NAME: Ink, Chemical Mixture CHEMICAL FAMILY: Aqueous Mixture

SECTION II - HAZARDOUS MATERIALS COMPOSITION

HAZARDOUS CHEMICAL IDENTITY	CAS NO.	%	PEL	TLV	LD50	LC50
Ammonia Hydroxide	1336-21-6	0 - 4 %	35 ppm	25 ppm	N/A	N/A

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT:	> 200 Degrees F	VAPOR PRESSURE (mm HG):	Not Detected
VAPOR DENSITY (Air=1):	Not Detected	SPECIFIC GRAVITY (H2O=1):	1.05 - 1.10
MELTING POINT:	Not Applicable	EVAPORATION RATE:	Not Detected
SOLUBILITY IN WATER:	Complete	APPEARANCE & ODOR:	Yellow liquid mild ammonia and/or acrylic odor.

SECTION IV - FIRE AND EXPLOSION DATA

FLASH POINT: >200 Degrees F
 FLAMMABLE LIMITS (LEL / UEL): Not Determined
 EXTINGUISHING MEDIA: This water based product is not expected to burn until all water has boiled away. The residual solids and/or product container may support combustion.
 SPECIAL FIRE FIGHTING PROCEDURES: Firefighters, when fighting fires, should be equipped with NIOSH/MSHA approved SCBA operated in positive pressure mode to protect against inhalation of hazardous products of combustion.
 UNUSUAL FIRE AND EXPLOSION HAZARDS: Sealed containers may rupture due to build-up of internal pressure if heated under fire conditions.

SECTION V - HEALTH HAZARD DATA

ROUTES OF ENTRY: Inhalation, Absorption
 HEALTH EFFECTS:
 EYE CONTACT: Can cause mild to moderate irritation
 SKIN CONTACT: Prolonged or repeated contact can defat the skin, cause irritation, and lead to the development of dermatitis.
 INHALATION: Under normal conditions of use, no adverse effects are expected.
 INGESTION: May cause irritation, vomiting, diarrhea, and gastrointestinal irritation.
 EMERGENCY AND FIRST AID PROCEDURES:
 EYE CONTACT: Flush eyes with water for 15 minutes. If irritation develops consult a physician.
 SKIN CONTACT: Remove contaminated clothing and shoes. Wash affected area with soap and water. If irritation develops consult a physician.
 INGESTION: Seek medical attention, unless advised otherwise, induce vomiting by giving syrup of ipecac or sticking finger down throat.
 INHALATION: Remove to fresh air. If symptoms develop, seek medical attention. If not breathing give artificial respiration.

SECTION VI - REACTIVITY DATA

CHEMICAL STABILITY: Stable under normal conditions

INCOMPATIBILITY: Oxidizing Agents

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Under fire conditions the product will evolve carbon dioxide, carbon monoxide, and possibly other noxious fumes.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Stop discharge if it can be performed safely, and contain material. If a substantial quantity is spilled, recover with pump or vacuum truck. Use an absorbent such as Fuller's Earth, clay, or other appropriate synthetic absorbent. Do not flush to bodies of water.

WASTE DISPOSAL METHOD: If discharged in its original unused form, this product should be managed, treated or stored, at an authorized facility in compliance with all State, Federal, and Local regulations.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: If the airborne concentration exceed established exposure limits (TLV or PEL) evacuate employees and ventilate the area. Follow good manufacturing and handling practices.

OTHER PRECAUTIONS: Do not reuse empty container for food, clothing, or products for human or animal consumption or where skin contact may occur. Store in cool, dry, well ventilated area. Protect from freezing.

SECTION VIII - CONTROL MEASURES

RESPIRATORY PROTECTION: When established airborne exposure limits are surpassed (see section 2) wear NIOSH/MSHA approved equipment. Determine the appropriate equipment by consulting the respirator manufacturer.

VENTILATION: When vapors mist or dust can be released. Maintain airborne concentrations below TLV/PEL

PROTECTIVE GLOVES: Nitrile rubber is recommended

EYE PROTECTION: Safety glasses with perm side shields

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Any contaminated clothing and shoes should be thoroughly cleaned and dried before re-use. Use clothing that is generally accepted as appropriate industrial attire.

WORK/HYGENIC PRACTICES: Wash hands thoroughly after handling, especially before eating, drinking, or using restroom facilities.

SECTION IX - OTHER INFORMATION

Workplace Hazardous material Information System (WHMIS)

Worker's Compensation Board of British Columbia

WHMIS Status: Controlled

Chemical Family: Aqueous Mixture

WHMIS Hazard Classification: D/2/B

Label: Waterbased Printing Ink

SARA Title III Section 311/312

Fire Hazard: No

Sudden Release of Pressure Hazard: No

Reactivity Hazard: No

Immediate (Acute) Health Hazard: Yes

Delayed (Chronic) Health Hazard: No

SARA Title III Section 302: This product does not contain an extremely hazardous substance.

*All components of this material are listed on the T.S.C.A. Inventory.

The California Safe Drinking Water and Toxic Enforcement Act of 1986, (Proposition 65, California Health and Safety Code Section 25249.5 et seq.) requires that a person potentially exposed to certain substances be made aware of the chronic effects of the substance specified by the State of California. Trace levels of substances specified by prop 65 are contained within this product. All substances are commonly found in the manufactured products of printing inks in the part per million levels. Our products are marketed under numerous health, safety and environmental laws which protect employees and the safety of public health. The following statement is provided to comply with the requirements of The California Safe Drinking Water and Toxic Enforcement Act of 1986: Detectable amounts of chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm may be found in this product.

The information contained herein, is correct to the best of our knowledge and belief as of the date published on this MSDS. Since the conditions of handling and use are beyond our control we assume no liability for damages incurred by the use of this product. All chemicals may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. It is the responsibility of the user to comply with all applicable Federal, State and Local regulations.

**SOHN MANUFACTURING, INC
MATERIAL SAFETY DATA SHEET**

H M I S RATING	
HEALTH	1
FLAMMABILITY	1
REACTIVITY	0
PPE	A

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PRODUCT NAME:	Sohn Water Based Ink	PRODUCT NO.:	04-99988
	Export Black		
DISTRIBUTED BY:	Sohn Manufacturing, Inc.		
	544 Sohn Drive		
	Elkhart Lake, WI 53020		
EMERGENCY PHONE #:	414-876-3361	SOHN D-U-N-S NO.	00-610-3972
LAST DATE UPDATED:	01/05/96	NAME OF PREPARER:	Sohn Mfg. Inc.,
D. O. T NAME/HAZARD/ID:	Water Based Printing Ink		N/A
CHEMICAL NAME:	Ink, Chemical Mixture	CHEMICAL FAMILY:	Aqueous Mixture

SECTION II - HAZARDOUS MATERIALS COMPOSITION

HAZARDOUS CHEMICAL IDENTITY	CAS NO.	%	PEL	TLV	LD50	LC50
Ammonia Hydroxide	1336-21-6	0 - 4 %	35 ppm	25 ppm	N/A	N/A
Isopropanol	67-63-0	2 - 6 %	400 ppm	400 ppm	N/A	N/A

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT:	> 200 Degrees F	VAPOR PRESSURE (mm HG):	Not Detected
VAPOR DENSITY(Air=1):	Not Detected	SPECIFIC GRAVITY (H2O=1):	1.05 - 1.10
MELTING POINT:	Not Applicable	EVAPORATION RATE:	Not Detected
SOLUBILITY IN WATER:	Complete	APPEARANCE & ODOR:	Black liquid mild ammonia and/or acrylic odor.

SECTION IV - FIRE AND EXPLOSION DATA

FLASH POINT:	>200 Degrees F
FLAMMABLE LIMITS (LEL / UEL):	Not Determined
EXTINGUISHING MEDIA:	This water based product is not expected to burn until all water has boiled away. The residual solids and/or product container may support combustion.
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INHALATION:	Under normal conditions of use, no adverse effects are expected.
INGESTION:	May cause irritation, vomiting, diarrhea, and gastrointestinal irritation.
EMERGENCY AND FIRST AID PROCEDURES:	
EYE CONTACT:	Flush eyes with water for 15 minutes. If irritation develops consult a physician.
SKIN CONTACT:	Remove contaminated clothing and shoes. Wash affected area with soap and water. If irritation develops consult a physician.
INGESTION:	Seek medical attention, unless advised otherwise, induce vomiting by giving syrup of ipecac or sticking finger down throat.
INHALATION:	Remove to fresh air. If symptoms develop, seek medical attention. If not breathing give artificial respiration.

SECTION VI - REACTIVITY DATA

CHEMICAL STABILITY: Stable under normal conditions

COMPATIBILITY: Oxidizing Agents

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Under fire conditions the product will evolve carbon dioxide, carbon monoxide, and possibly other noxious fumes.

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