

MSDS Reference Number(s): IL3

MATERIAL SAFETY DATA SHEET

SECTION I - MATERIAL IDENTIFICATION AND USE

Material Name Identifier:

ISO Laser Ink (Blue)

Supplier Name: Sterling Marking Products Inc.
 Street Address: 349 Ridout St. N.,
 City and Province: London, Ontario
 Postal Code: N6A 2N8

Telephone Numbers: (519) 434-5785, (800) 265-5957
 Fax Number: (519) 434-9516, (800) 667-6600
 Webpage: <http://www.sterling.ca>

Emergency Telephone Number: CANUTEC (613) 996-6666; Cellular *666

Material Use: **Ink**

TDG Shipping Information:

Not regulated

WHMIS Classification:

Class D, Division 2A - Very Chronically Toxic (Contains
 Michler's ketone)
 Class D, Division 2B - Skin/Eye Irritant

IATA Shipping (Air):

Not regulated

SECTION II - HAZARDOUS INGREDIENTS

Component	CAS Registry	Toxicology	Concentration % (w/w)
Diethylene glycol	111-46-6	TLV: 50ppm L _D 50: 12565mg/kg (oral, rat) L _C 50: Not available	<25
2-Ethyl-1,3-hexanediol	94-96-2	TLV: Not available L _D 50: Not available L _C 50: Not available	<25
Dibutyl phthalate	84-74-2	TLV: 5mg/m ³ L _D 50: Not available L _C 50: Not available	<2
Polyether Polyol	025322-69-4	TLV: Not available L _D 50: Not available L _C 50: Not available	<20
Solvent Blue	6786-83-0	TLV: Not available L _D 50: Not available L _C 50: Not available	<10
Michler's ketone	90-94-8	TLV: Not available L _D 50: 100mg/kg (oral, rat) L _C 50: Not available	<0.4

Note: All ingredients are listed on the Domestic Substances List (DSL) and the Toxic Substances Control Act (TSCA) list.

SECTION III - PHYSICAL DATA

Physical State: Liquid	% Volatile: Not available
Specific Gravity: Not available	Boiling Point (°C): 177
Colour: Dark Blue	Odour: Mild characteristic
Viscosity: As water	Solubility in Water (20 °C): Moderate
Clarity: Opaque	Flash Point (°C): 121
Evaporation Rate: Slower vs. Bu Ac	Vapour Density (air =1): Heavier vs. air

SECTION IV - FIRE AND EXPLOSION DATA

Flammability: Not flammable	Flash Point (°C TCC): 121
LEL (% vol) lowest value of components: Not available	
UEL (% vol) highest value of components: Not available	
Hazardous Combustion Products: Oxides of carbon	
Means of Extinction: Carbon dioxide, dry chemical, alcohol foam, water spray	

SECTION V - REACTIVITY DATA

Stability: Stable
Incompatibility: Oxidizing materials
Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, possible aldehydes, ketones, organic acids, and polymer fragments
Hazardous Polymerization: Will not occur

SECTION VI - TOXICOLOGICAL PROPERTIES

Route of Entry: Eye, Skin, Inhalation, Ingestion
<u>Effects of Acute Exposure:</u>
Eye: Can cause irritation, redness, tearing and blurred vision.
Skin: Prolonged or repeated contact can cause minor skin irritation.
Inhalation: Excessive inhalation of vapours can cause nasal and respiratory irritation. Mists at high temperatures may be harmful if inhaled.
Ingestion: May be harmful or fatal if swallowed. Several ingredients are toxic by ingestion (See Section II). May cause pain and discomfort in the abdominal and lumbar regions, central nervous system (CNS) depression, kidney and liver damage, nausea, vomiting, diarrhea, dizziness, drowsiness, malaise, irritation of the mouth and throat, and loss of consciousness.
<u>Effects of Chronic Exposure:</u>
Skin: Prolonged or repeated contact can cause minor skin irritation.
Inhalation: Excessive inhalation of vapours can cause nasal and respiratory irritation.
Irritancy: Hazardous by WHMIS criteria
Respiratory Tract Sensitization: Insufficient data available
Carcinogenicity: This product contains Michler's ketone [CAS #90-94-8], which is listed by IARC (International Agency for Research on Cancer) as a Group 2B carcinogen (Possibly carcinogenic to humans).
Synergistic Materials: No information available
Reproductive Effects: Insufficient data available
Teratogenicity: Insufficient data available
Mutagenicity: Insufficient data available

SECTION VII - PREVENTATIVE MEASURES

Gloves: Solvent impermeable gloves are required for repeated or prolonged contact.

Eye Protection: Wear safety glasses meeting the specification of ANSI Z87.1 where no contact with the eye is anticipated.

Chemical safety goggles meeting the specifications of ANSI Z87.1 should be worn whenever there is a possibility of splashing or other contact with the eyes.

Respiratory Protection: None required.

Other Protective Equipment: As necessary to avoid prolonged contact.

Engineering Controls: None required.

Leak and Spill Procedure: Before attempting clean-up, refer to hazard data given above. Keep spectators away. Eliminate all ignition sources. Dike and contain small spills with an inert material and placed in suitable, covered labeled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice.

Waste Disposal: Review federal, provincial and local government requirements prior to disposal.

Storage Requirements: Store in a tightly closed container. Store away from incompatible materials. Store in a cool, dry, well-ventilated area. Ensure storage area has adequate ventilation, and no source of open flame or sparks. Limit quantity of the material in storage. Ensure all bottles are properly labeled.

SECTION VIII - FIRST AID

Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

Eye: Immediately flush eyes with a directed stream of water for 15 minutes, while holding eyelids open. If irritation or redness develops or persists, get medical attention.

Skin: Flush affected areas with large amounts of water, remove contaminated clothing. Wash affected areas thoroughly with soap and water. If irritation or redness develops or persists, get medical attention.

Inhalation: Remove victim to fresh air. If breathing difficulties develop, administer oxygen and get medical attention. If victim is not breathing, administer artificial respiration and get medical attention.

Ingestion: DO NOT INDUCE VOMITING. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into lungs (Aspiration pneumonitis can be fatal). If victim conscious and alert, give victim lukewarm water. Never give anything by mouth if victim is unconscious, is rapidly losing consciousness or is convulsing. GET IMMEDIATE MEDICAL ATTENTION.

SECTION IX - PREPARATION AND ADDITIONAL INFORMATION

Prepared by: Sterling Marking Products Inc.
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Information for this material safety data sheet was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond the control of the supplier, it is assumed that user of this material has been fully trained according to the mandatory requirements of WHMIS. If user requires independent information on ingredients in this or any other material, we recommend contact with the Canadian Centre for Occupational Health and Safety (CCOHS) in Hamilton, Ontario (1-800-263-8276) or CSST in Montreal, Quebec (514-873-3990).