

Type D Stencil Ink (Black)**SECTION 1: IDENTIFICATION**

Product Identifier: Type D Stencil Ink (Black)
Other Means of Identification: Stencil Ink
Recommended Use: Marking
Restrictions on Use: None known
Supplier Identifier: Sterling Marking Products Inc., 1147 Gainsborough Road, London, ON
Canada N6H 5L5 1-800-265-5957, 519-434-5785
Emergency Phone Number: CANUTEC (613) 966-6666, Cellular *666

SECTION 2: HAZARD IDENTIFICATION

Classified according to Canada's Hazardous Products Regulations (WHMIS 2015) and the U.S. Hazardous Communication Standard (HCS 2012)

Classification

Flammable Liquids, Category 3 (Flammable Liquid & Vapour)
Serious Eye Damage/Eye Irritation, Category 1 (Causes Serious Eye Damage)
Suspected of Causing Cancer

Label Elements:

Signal Word: Danger

Hazard Statements:

H225: Flammable liquid & vapour

H318: Causes serious eye damage

Suspected of Causing Cancer

Prevention: Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing mist or vapor. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.

Response: If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. In case of fire: Use appropriate media to extinguish.

Storage: Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.

Disposal: Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazards not otherwise classified (HNOC): None known.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS
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Chemical Name	CAS Number	Percentage (%)	Other Identifiers
Ethylene Glycol Mono-butyl Ether	111-76-2	37 - 40%	Not Applicable
Ethanol	64-17-5	19 - 27%	Ethyl Alcohol
Carbon Black	1333-86-4	9 - 11%	Not Applicable
n-Propyl Alcohol	71-23-8	5 - 8%	Not Applicable
Methylisobutyl ketone	108-10-1	1	Not Applicable
Solvent Naptha (petroleum), light aliphatic	64742-89-8	<1	Not Applicable
Heptane	142-82-5	<1	Not Applicable
Toluene	108-88-3	Trace	Not Applicable
Acetaldehyde	75-07-0	Trace	Not Applicable

Composition comments: All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume

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

SECTION 4: FIRST AID MEASURES

Inhalation:

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Skin contact:

Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical attention if irritation develops and persists.

Eye contact:

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Ingestion:

Rinse mouth thoroughly. If ingestion of a large amount does occur, call a poison control center immediately.

Most important symptoms/effects, acute and delayed:

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation.

Indication of immediate medical attention and special treatment needed:

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

General information:

Take off all contaminated clothing immediately. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

SECTION 5: FIRE-FIGHTING MEASURES**Suitable extinguishing media:**

Water fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO₂).

Unsuitable extinguishing media:

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical:

Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters:

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire-fighting equipment/instructions:

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

Specific methods:

Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards:

Flammable liquid and vapor

SECTION 6: ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures:**

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up:

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Keep combustibles (wood, paper, oil, etc.) away from spilled material.

Large Spills: Stop the flow of material, if this is without risk. Use water spray to reduce vapors or divert vapor cloud drift. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Clean up in accordance with all applicable regulations. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

SECTION 7. HANDLING AND STORAGE**Precautions for safe handling:**

Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be

grounded. Use non-sparking tools and explosion-proof equipment. Avoid contact with eyes. Avoid breathing mist or vapor. Avoid prolonged exposure. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Use care in handling/storage.

Conditions for safe storage, including any incompatibilities:

Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS). Store between 35°F (2°C) and 120°F (49°C).

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION
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Occupational Exposure Limits

Chemical Name	CAS Number	ACGIH TLV-TWA	Toxicology
Ethylene Glycol Mono-butyl Ether	111-76-2	TWA 20 ppm	LD ₅₀ : 470 gm/kg (oral, rat) LD ₅₀ : 99 mg/kg (dermal, rabbit) LC ₅₀ 4h: 450 ppm (rat)
Ethanol	64-17-5	STEL 1,000 ppm	LD ₅₀ : 7,060 mg/kg (oral, rat)
Carbon Black	1333-86-4	TWA 3 mg/m ³ inhalable fraction	LD ₅₀ : >15,400 mg/kg (oral, rat) LD ₅₀ : >3 gm/kg(dermal, rabbit)
n-Propyl Alcohol	71-23-8	TWA 100 ppm	LD ₅₀ : 1,870 mg/kg (oral, rat) LD ₅₀ : >4,049 mg/kg(dermal, rabbit)
Methylisobutyl ketone	108-10-1	STEL 75 ppm TWA 100 ppm	LD ₅₀ : >3000 mg/kg(dermal, rabbit) LC ₅₀ : 103 g/m ² (rat) 4Hr
Heptane	142-82-5	STEL 500 ppm TWA 400 ppm	LD ₅₀ : >3000 mg/kg(dermal, rabbit)
Toluene	108-88-3	TWA 20 ppm	LD ₅₀ : 12000 mg/kg(dermal, rabbit) LC ₅₀ : 12.5 mg/L (rat) 4Hr
Acetaldehyde	75-07-0	Ceiling 25 ppm	LC ₅₀ : 13000 ppm (rat) 4Hr

Appropriate engineering controls:

Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station.

Individual protection measures, such as personal protective equipment:
Eye/face protection:

Wear approved safety goggles.

Skin protection:
Hand protection:

Wear appropriate chemical resistant gloves.

Other:

Wear suitable protective clothing

Respiratory protection:

When workers are facing concentrations above the exposure limit they must use appropriate

certified respirators.

Thermal hazards:

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations:

When using, do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Black liquid.
Physical state:	Liquid.
Form:	Liquid.
Color:	Black.
Odor:	Characteristic Alcohol.
Odor threshold:	Not determined.
pH:	Not determined.
Melting point/freezing point:	Not determined.
Initial boiling point:	Not determined.
Flash point:	24.72°C/76.5°F.
Evaporation rate:	Not determined.
Flammability (solid, gas):	Not determined.
Vapor pressure:	Not determined.
Vapor density:	Not determined.
Relative density:	Not determined.
Solubility(ies):	
Solubility (water):	Not determined.
Partition coefficient(n-octanol/water):	Not determined.
Auto-ignition temperature:	Not determined.
Decomposition temperature:	Not determined.
Viscosity:	Not determined..
Other information	
Density:	7.72 lbs/gal.

SECTION 10: STABILITY AND REACTIVITY**Reactivity:**

The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability:

Material is stable under normal conditions.

Possibility of hazardous reactions:

No dangerous reaction known under conditions of normal use.

Conditions to avoid:

Keep away from heat, sparks and open flame. Avoid temperatures exceeding the flash point.

Contact with incompatible materials:

Incompatible materials:

Strong oxidizing agents. Strong acids. Strong bases. Alkali metals. Halogens.

Hazardous decomposition products:

In case of fire: Carbon oxides. Metal oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Eye contact:

Causes serious eye damage.

Ingestion:

Harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics:

Serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Information on toxicological effects:

Serious eye damage/eye irritation:

Causes serious eye damage.

Respiratory or skin sensitization:

Respiratory sensitization:

Not a respiratory sensitizer.

Skin sensitization:

This product is not expected to cause skin sensitization.

Germ cell mutagenicity:

No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity:

Ethanol has been shown to be carcinogenic in long-term studies only when consumed as an alcoholic beverage.

Carbon black is a possible carcinogen when it appears as a respirable dust.

IARC Monographs. Overall Evaluation of Carcinogenicity:

Not listed

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

Not listed.

Reproductive toxicity:

This product is not expected to cause reproductive or developmental effects.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:

The product is toxic to aquatic life with long-lasting effects.

Persistence and degradability:

No data available.

Bioaccumulative potential:

No data available.

Mobility in soil:

This product is moderately water soluble and may disperse in soil.

Other adverse effects:

None known.

SECTION 13: DISPOSAL CONSIDERATIONS**Disposal instructions:**

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations:

Dispose in accordance with all applicable regulations.

Hazardous waste code:

D001: Waste Flammable material with a flash point <140 °F

Waste from residues / unused products:

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). Dispose of waste and residues in accordance with local authority requirements.

Contaminated packaging:

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14: TRANSPORT INFORMATION**DOT**

UN number:	UN1210
UN proper shipping name:	Printing ink, flammable
Transport hazard class(es):	
Class:	3
Subsidiary risk:	-
Label(s):	3
Packing group:	III
Special precautions for user:	Read safety instructions, SDS and emergency procedures before handling.
Special provisions:	B1, IB3, T2, TP1
Packaging exceptions:	150
Packaging non bulk:	173
Packaging bulk:	242

IATA

UN number:	UN1210
UN proper shipping name:	Printing ink, flammable
Transport hazard class(es):	
Class:	3
Subsidiary risk:	-
Label(s):	3
Packing group:	III
Environmental Hazards	No.
ERG Code:	3L
Special precautions for user:	Read safety instructions, SDS and emergency procedures before handling.

IMDG

UN number:	UN1210
UN proper shipping name:	Printing ink, flammable
Transport hazard class(es):	
Class:	3

Subsidiary risk:	-
Label(s):	3
Packing group:	III
Environmental Hazards	
Marine pollutant:	No.
EmS:	F-E, S-D
Special precautions for user:	Read safety instructions, SDS and emergency procedures before handling.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:	Not established.

SECTION 15: REGULATORY INFORMATION**US federal regulations:**

This product is hazardous according to OSHA 29 CFR 1910.1200.
All components are on the U.S. EPA TSCA Inventory List.

CERCLA/SARA Hazardous Substances - Not applicable.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)**Hazard categories:**

Immediate Hazard - Yes

Delayed Hazard - No

Fire Hazard - Yes

Pressure Hazard - No

Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical

Yes

SARA 313 (TRI reporting)

Ethylene Glycol Mono-butyl Ether CAS #111-76-2, 20% - 30%, 1.0% Threshold Value

Other federal regulations:**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA)

Not regulated.

US state regulations:**US. Massachusetts RTK - Substance List**

Ethylene Glycol Mono-butyl Ether CAS 111-76-2

Ethyl Alcohol, CAS 64-17-5

n-Propyl Alcohol CAS 71-23-8

Carbon Black CAS 113-86-4

US. New Jersey Worker and Community Right-to-Know Act

Ethylene Glycol Mono-butyl Ether CAS 111-76-2

Ethyl Alcohol, CAS 64-17-5
n-Propyl Alcohol CAS 71-23-8
Carbon Black CAS 113-86-4

US. Pennsylvania Worker and Community Right-to-Know Law

Ethylene Glycol Mono-butyl Ether CAS 111-76-2
Ethyl Alcohol, CAS 64-17-5
n-Propyl Alcohol CAS 71-23-8
Carbon Black CAS 113-86-4

US. Rhode Island RTK

Not regulated.

US. California Proposition 65

Ethyl Alcohol, CAS 64-17-5, Carcinogen, Developmental
Carbon Black CAS 113-86-4, Carcinogen

International Inventories

Country(s) or region name	Inventory	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s). A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

WHMIS Hazardous Class:

Acute Toxicity, Oral, Category 4 (Harmful If Swallowed)
Acute Toxicity, Inhalation (Dust/Mists), Category 4 (Harmful If Inhaled)
Flammable Liquids, Category 2 (Highly Flammable Liquid & Vapour)
Skin Corrosion/irritation, Category 2 (Causes Skin Irritation)
Serious Eye Damage/Eye Irritation, Category 1 (Causes Serious Eye Damage)
Specific Target Organ Toxicity – Single Exposure, Category 3, (May Cause Respiratory Irritation or May Cause Drowsiness or Dizziness)

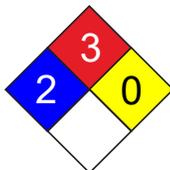


SECTION 16: OTHER INFORMATION

Additional Information: This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

HMIS® ratings:

Health: 2
Flammability: 3
Physical hazard: 0



Further information: HMIS® is a registered trade and service mark of the NPCA NB

NFPA ratings

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Do not use ingredient information and/or ingredient percentages in this SDS as a product specification. For product specification information refer to a Product Specification Sheet and/or a Certificate of Analysis. These can be obtained from your local Sterling Marking Products Inc. Sales Office.

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End of SDS.