

**2112 Ink (All Colours)****SECTION 1: IDENTIFICATION**

<b>Product Identifier:</b>	2112 Ink (All Colours)
<b>Other Means of Identification:</b>	C-187 Ink
<b>Recommended Use:</b>	Marking
<b>Restrictions on Use:</b>	None known
<b>Supplier Identifier:</b>	Sterling Marking Products Inc., 1147 Gainsborough Road, London, ON Canada N6H 5L5 1-800-265-5957, 519-434-5785
<b>Emergency Phone Number:</b>	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 Liquid, Category 2  
Serious Eye Damage/Eye Irritation, Category 2  
Acutely Toxicity, Category 3 (Methyl Alcohol, Oral)  
Acutely Toxicity, Category 3 (Methyl Alcohol, Dermal)  
Acutely Toxicity, Category 3 (Methyl Alcohol, Inhalation)  
Reproductive Toxicity, Category 2 (Ethylene Glycol Monobutyl Ether)  
Specific Target Organ Toxicity (Single Exposure), Category 1

**Label Elements:****Signal Word: Danger****Hazard Statements:**

H225: Highly Flammable Liquid and Vapour  
H319: Causes Serious Eye Irritation  
H301: Toxic if Swallowed  
H311: Toxic in Contact with Skin  
H331: Toxic if Inhaled  
H361: Suspected of Damaging Fertility or the Unborn Child  
H370: Causes Damage to Organs

**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

Chemical Name	CAS Number	Percentage (%)	Other Identifiers
Ethanol	64-17-5	82.9%	Grain Alcohol
Methyl Alcohol	67-56-1	16.4%	Wood Alcohol
Diethylene Glycol	111-46-6	1% - 5%	N/A

Remaining components are proprietary, non-hazardous and/or present at amounts below reportable limits.

**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 (CO<sub>2</sub>).

**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**

**Occupational Exposure Limits**

Chemical Name	TLV	Toxicology
Ethanol	1,000 ppm.	ACGIH TLV-TWA 1000 ppm LD50: 7060 mg/kg (oral, rat) LC50: 31,623 ppm/4H (inhalation, rat)
Methyl Alcohol	200 ppm.	ACGIH TLV-TWA 200 ppm; STEL 250 ppm (skin) LD50: 5628mg/kg (oral, rat) LC50: 64,000ppm/4H (inhalation, rat)
Diethylene Glycol	Not Established	ACGIH TLV-TWA 20 ppm LD50: 470mg/kg (oral, rat) LC50: 450ppm/4H (inhalation, rat)

**Biological limit values:**

No biological exposure limits noted for the ingredient(s).

**Exposure guidelines:**

Diethylene Glycol – the odor is objectionable at 100 ppm; higher levels produce eye, nose and throat irritation. Dermal absorption may contribute substantially to the total uptake following skin contact with liquids or vapours containing EGME.

**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**

<b>Appearance:</b>	Opaque Coloured Liquid.
<b>Physical state:</b>	Liquid.
<b>Form:</b>	Liquid.
<b>Color:</b>	Various, black, red, blue, green, violet
<b>Odor:</b>	Characteristic, Glycol Ether
<b>Odor threshold:</b>	Not available.
<b>pH:</b>	Not available.
<b>Melting point/freezing point:</b>	Not available.
<b>Initial boiling point and boiling range:</b>	N
<b>Flash point:</b>	54°F (12°C) Tag Closed Cup.
<b>Evaporation rate:</b>	<1
<b>Flammability (solid, gas):</b>	Flammable
<b>Vapor pressure:</b>	Not Established
<b>Vapor density:</b>	Not available.
<b>Relative density:</b>	Not available.
<b>Solubility(ies):</b>	
<b>Solubility (water):</b>	Insoluble

**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. Amines

**Hazardous decomposition products:**

In case of fire: Carbon oxides, H<sub>2</sub>O, Nitrogen Oxides.

**SECTION 11: TOXICOLOGICAL INFORMATION****Information on likely routes of exposure:****Inhalation:**

May cause irritation to the respiratory system.

**Skin contact:**

May cause skin irritation. Dermal absorption may contribute substantially to the total uptake following skin contact with liquids or vapours containing Diethylene Glycol.

**Eye contact:**

Causes serious eye irritation.

**Ingestion:**

Toxic if swallowed. Even small amounts may cause blindness or death.

**Symptoms related to the physical, chemical and toxicological characteristics:**

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

**Information on toxicological effects:****Acute toxicity:**

May cause respiratory irritation. May cause discomfort if swallowed.

**Skin corrosion/irritation:**

Prolonged or repeated contact may dry skin and cause dermatitis.

**Serious eye damage/eye irritation:**

Causes serious eye irritation.

**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:**

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. Titanium dioxide is considered carcinogenic only when in an inhalable powdered form.

**IARC Monographs. Overall Evaluation of Carcinogenicity:**

Titanium dioxide (CAS 13463-67-7)

2B Possibly carcinogenic to humans.

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

Not listed.

**Reproductive toxicity:**

This product is expected to cause reproductive or developmental effects.

**Specific target organ toxicity - single exposure:**

May cause respiratory irritation.

**Specific target organ toxicity - repeated exposure:**

Not classified.

**Aspiration hazard:**

No data available.

**Chronic effects:**

Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis. The product contains organic solvents which may be absorbed into the body by skin contact and cause permanent damage to the nervous system, including the brain.

**SECTION 12: ECOLOGICAL INFORMATION****Ecotoxicity:**

The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

**Persistence and degradability:**

No data available.

**Bioaccumulative potential:**

The product does not contain any substances expected to be bioaccumulating.

**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**

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

**IATA**

<b>UN number:</b>	UN1210
<b>UN proper shipping name:</b>	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.

**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.

**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:**

FLAMMABLE LIQUIDS  
 ACUTE TOXICITY  
 RESPIRATORY OR SKIN SENSITIZATION  
 REPRODUCTIVE



**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.

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*End of SDS.*