

**I-S02-1 Ink Cartridge****SECTION 1: IDENTIFICATION**

**Product Name:** I-S02-1 Ink Cartridge  
**Other Product Names:** None known  
**Part Number:** 6006104005  
**Recommended use:** Stamping or Printing Ink  
**Restrictions on use:** None known  
**Vendor ID:** Sterling Marking Products Inc., 1147 Gainsborough Road, London, ON  
Canada N6H 5L5 1-800-265-5957, 519-434-5785  
Emergency telephone number: CANUTEC (613) 966-6666, Cellular \* 666

**SECTION 2: HAZARD IDENTIFICATION**

*Classified according to the Canadian Dangerous Products Regulations (WHMIS 2015) and the American standard on dangerous communications (HCS 2012)*

**Classification**

Highly flammable liquid and vapour - Category 2, H225

Causes serious eye irritation - Category 2, H319.

**Label Elements:**

**Signal word: Danger**

**Hazard statements:**

H225, Highly flammable liquid and vapour

H319, Causes serious eye irritation

**Caution statements:**

Use only out-of-doors or in a well ventilated area.

Keep container tightly closed.

Keep away from heat, hot surfaces, sparks, open flames or other sources of ignition. No smoking.

Avoid respiratory vapors.

Wear protective gloves and eye protection.

Wash hands and skin thoroughly after handling.

**Additional precautionary statements**

Earth / Bond container and receiving equipment.

Use only non-sparking tools.

Take precautions against static discharge.

Avoid breathing dust/smoke/gas/mist/vapors/spray.

In case of fire: use foam, carbon dioxide, dry powder or water mist for extinction.

If on skin (or hair): immediately remove all contaminated clothing. Rinse the skin with water, shower.

If inhaled: remove victim to fresh air and keep at rest in a position comfortable for breathing.

Call a poison control center or doctor if you feel unwell.

Dispose of contents & container in accordance with local regulations.

**Additional label information**

Repeated exposure may cause skin dryness or cracking.

**SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS**

**Description:** Mixture of substances listed below with non-hazardous additions

Dangerous Components			
Component	CAS Register Number	Concentration %	Other Identifiers
Ethanol	64-17-5	40 – 60%	Not Available
Butanone	78-93-3	5 - 10%	Not Available
Acetone	67-64-1	2 - 5%	Not Available

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

**SECTION 4: FIRST AID MEASURES**

**General information.**

**Note! Keep the affected person away from heat, sparks and flame!**

**Inhalation:**

Move the exposed person to fresh air. Perform artificial respiration if breathing has stopped. Keep the affected person warm and at rest. Get prompt medical attention.

**Ingestion:**

Never make an unconscious person vomit or drink fluids! Do not induce vomiting! Get medical attention immediately!

**Skin contact:**

Remove the affected person from the source of contamination. Wash the skin immediately with soap and water. Get medical attention if you feel unwell.

**Eye contact:**

Quickly wash eyes with plenty of water while lifting the eyelids. Continue rinsing for at least 15 minutes. Immediately transport person to a hospital or eye specialist.

**Most important symptoms and effects, both acute and delayed.**

**General information:**

The severity of the symptoms described will vary depending on the concentration and duration of exposure.

**Inhalation:**

Vapors may cause headache, fatigue, dizziness and nausea.

**Ingestion:**

May cause nausea, headache, dizziness and poisoning.

**Skin contact:**

Prolonged contact may cause redness, irritation and dry skin.

**Eye Contact:**

May cause severe eye irritation.

**Indication of any immediate medical attention and special treatment needed:**

No recommendations are given, but first aid may still be required in case of accidental exposure, inhalation or ingestion of this chemical. If in doubt, seek medical attention promptly!

**Notes to physician:** no specific antidote. Treatment based on the doctor's sound judgment and the patient's individual reactions. First aid should pay attention to self-protection and use recommended protective clothing (chemical resistant gloves, splash protection).

**SECTION 5: FIRE-FIGHTING MEASURES****Extinguishing Media.****Suitable extinguishing media:**

Water mist or fine spray, carbon dioxide, dry chemical, foam. Alcohol resistant foams (ATC type) are preferred if available. Synthetic foams for general use (including AFFF) or protein foams can work but much less effectively.

**Unsuitable extinguishing media:**

Do not use a direct stream of water, which will spread the fire.

**Specific hazards arising from the product:****Hazardous combustion products.**

Thermal decomposition or combustion may release oxides of carbon and other toxic gases or vapors.

**Unusual fire and explosion hazards:**

Take precautions against static discharge.

**Specific hazards:**

Fire creates: toxic gases / vapors / fumes from: carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>) decomposition / hazardous combustion materials (under fire conditions):

The smoke may contain unidentified toxic and / or irritant compounds. Carbon monoxide. Carbon dioxide.

**Special protective equipment:**

Firefighters should wear full protective clothing, including self-contained breathing apparatus.

**Special fire-fighting procedures:**

Keep runoff water out of drains and water sources. Dike for water control. If the risk of water pollution occurs, notify the competent authorities.

Use water to keep containers exposed to fire cool and disperse vapors. Move the container from the fire area if you can do so without risk.

**SECTION 6: ACCIDENTAL RELEASE MEASURES****Personal protective measures:**

Wear appropriate protective equipment.

**Environmental precautionary measures:**

Prevent entry into sewers or streams, dike if necessary.

**Containment and cleaning procedures and equipment:**

Extinguish all sources of ignition. Avoid sparks, flame, heat and smoking. Ventilate. Cleaning personnel should use respiratory protection and / or liquid contact.

Runoff or discharge into sewers, waterways or the soil is prohibited.

Small spills: collect with absorbent and non-combustible materials in suitable containers.

Large spill: absorb into vermiculite or dry sand and dispose of it at an authorized hazardous waste collection point. Inform the authorities if large quantities are involved.

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

**Flammable.** Keep away from heat, sparks and flame. Avoid contact with eyes, skin and clothing. Avoid breathing vapor. Keep containers closed when not in use. Use with adequate ventilation. Never use air pressure to transfer the product. No smoking or open flame in storage, use or handling areas. Ensure that electrical grounding procedures are in place. Use tools without sparks. Containers, even those that have been emptied, will retain product residue and vapors and should be handled as if they were full until they have been cleaned. This product is a poor conductor of electricity and can be electrostatically charged during handling and use (for example: during mixing, filtering or pumping). If this charge reaches a sufficiently high level, static discharge or sparks which may cause ignition may occur. Risk of vapor concentration on the ground and in low areas.

**Conditions for safe storage:**

Store in a cool, dry and well-ventilated place, away from heat and ignition sources. Use explosion-proof ventilation to prevent accumulation of steam. Keep containers tightly closed. Store in the original container. Store in accordance with good industrial practice.

**SECTION 8: EXPOSURE CONTROL / PERSONAL PROTECTION**

**Control Parameters**

Component	Toxicology	Concentration % (w/w)
Ethanol, 64-17-5	ACGIH TLV-TWA 1000 ppm	LD50: 7060 mg/kg (oral, rat) LC50: 20,000ppm/10H (inhalation, rat)
Acetone, 67-64-1	ACGIH TLV-TWA 500 ppm; STEL 750 ppm (skin)	
Butanone, 78-93-3	ACGIH TLV-TWA 50 ppm STEL 100 ppm	

**Appropriate engineering controls:**

Local ventilation required to keep exposure within acceptable limits.

**Individual protection equipment:**

**Respiratory protection:** If exposure exceeds occupational exposure limits, use an appropriate NIOSH approved respirator. For concentrations above the recommended exposure limit, use an NIOSH approved air purifying respirator.

**Protection of Gloves:** use gloves chemically resistant to this material. Notice: the selection of a specific glove for a particular application and the duration of use in a workplace should also take into account all relevant factors of the workplace such as, but not limited to: other products chemicals that can be handled, physical requirements (Cut / puncture protection, dexterity, thermal protection), potential bodily reactions to glove materials as well as instructions / specifications provided by the glove supplier.

**Skin protection:** the selection of personal protective equipment varies according to the conditions of use. Skin contact should be prevented by the use of appropriate protective clothing, gloves and shoes, chosen for the conditions of use and the potential for exposure. Consider both durability and resistance to permeation. Waterproof clothing. Waterproof boots.

**Eye Protection:** chemical protection glasses; Also wear a face shield if there is a risk of splashing.

**Environmental exposure controls:** keep container tightly sealed when not in use.

**Other personal protection data:** Make sure that eyewash stations and safety showers are close to the workplace.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**Physical state:** liquid.

**Color:** various.

**Odor:** alcoholic.

**pH at 20 ° C (68 ° F):** not available.

**Boiling point:** 75.8 ° C.

**Freezing / melting point:** not determined.

**Vapor pressure:** not available

**Vapor density** not available

**% Volatile by volume:** not available.

**Evaporation rate:** not available.

**Solubility:** not determined.

**Viscosity:** not determined.

**Molecular weight:** not available.

**Other:** not available.

**SECTION 10: STABILITY AND REACTIVITY**

**Reactivity:** Not reactive.

**Chemical stability:** Stable.

**Hazardous polymerization:** Will not polymerize.

**Conditions to avoid:** High temperatures and fire

**Materials to avoid:** Incompatible with strong oxidizing agents

**Oxidizing materials.** Strong acids or bases, strong oxidizing agents and strong reducing agents

**Hazardous decomposition products:**

Decomposition products may include and are not limited to: Carbon monoxide. Carbon dioxide, nitrogen oxides, sulfur oxides, hydrogen chloride gas and sodium oxides.

**Additional information:** No additional remarks.

**SECTION 11: TOXICOLOGICAL INFORMATION**

**Likely routes of exposure:**

**Ingestion:**

**Low toxicity.** Small amounts swallowed during normal handling operations are not likely to cause injury. Swallowing larger amounts may cause injury.

**Skin contact:** Irritating to skin and mucous membranes.

**Inhalation:** Brief exposure (minutes) is not likely to cause adverse effects.

**Eye contact:** Irritant effect. Causes serious eye irritation.

**Additional information:** none available.

**Acute product testing:**

Component	CAS Registre	Toxicologie	Concentration % (w/w)
Ethanol	64-17-5	ACGIH TLV-TWA 1000 ppm L <sub>D</sub> 50: 6300 mg/kg (oral, rabbit) L <sub>C</sub> 50: 17,100ppm/10H (inhalation, rabbit)	40 – 60%
Acetone	67-64-1	ACGIH TLV-TWA 200 ppm; STEL 400 ppm L <sub>D</sub> 50: 7426 mg/kg (oral, rabbit) L <sub>C</sub> 50: 16,000ppm/4H (inhalation, rat)	2 – 5%
Butanone	78-93-3	TLV: Not available L <sub>D</sub> 50: 13000/kg (oral, rabbit) L <sub>C</sub> 50: Not available	5 – 10%
Diacetone Alcohol	123-42-2	ACGIH TLV-TWA 50 ppm L <sub>D</sub> 50: 4000 mg/kg (oral, rat) L <sub>C</sub> 50: Not available	30-70
Isopropyl Acetate	108-21-4	ACGIH TLV-TWA 100 ppm;STEL 200 ppm L <sub>D</sub> 50: 6750 mg/kg (oral, rat) L <sub>C</sub> 50: 50600 mg/m <sup>3</sup> /8H	15-40

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

**Carcinogenicity:**

**Carcinogenicity Comment:** IARC (International Agency for Research on Cancer) - The substance is not listed, none of the components are listed.

**SECTION 12: ECOLOGICAL INFORMATION****Ecotoxicological information:**

The hazards to the aquatic environment are unknown.

**Other information:**

**Ecotoxicity:** the product is practically non-toxic to aquatic organisms on an acute basis. Flushing larger quantities down the drain can increase pH values which can harm aquatic organisms.

**SECTION 13: DISPOSAL CONSIDERATIONS**

**Waste disposal method:** All waste must be disposed of in accordance with municipal, provincial and federal regulations.

**Contaminated packaging:** Empty containers should be recycled or disposed of in an approved waste management facility. Water is the recommended cleaning agent if necessary.

**SECTION 14: TRANSPORT INFORMATION****IATA (air) shipping:**

Printing ink packaging instruction for limited quantity: Y344

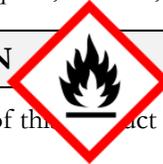
Maximum net quantity (per external package):

Refer to pkg. inst. no. for the type of inner packaging and the maximum quantity per inner package. DGR - 54th edition.

**TDG Shipping Information:** Printing Ink, UN1210

**Class:**3-flammable liquid **PG:** III-relatively minor danger

**WHMIS classification:** Class B, Division 3-combustible liquids, Class D, Division 2B - irritating to skin / eyes

**SECTION 15: REGULATORY INFORMATION**

**Canadian DSL Inventory Status:** All of the components of this product are on the Domestic Substances List (DSL), the Domestic Substances List (LES) or are exempt.

**WHMIS hazardous class:**

Highly flammable liquid and vapour - Category 2, H225

Eye Irritant - Category 2, H319

**Hazard Pictograms:****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.