

**Black MEK-Base Plastic Ink**  
According to Regulation (EU) No 453/2010**SECTION 1: IDENTIFICATION**

<b>Product Identifier:</b>	<b>Black MEK-Base Plastic Ink</b>
<b>Other Means of Identification:</b>	<b>Ink, Case 6, 750ml, MEK Plastic Part Number: 302-1003-001</b>
<b>Recommended Use:</b>	<b>Marking Ink</b>
<b>Restrictions on Use:</b>	<b>None known</b>
<b>Supplier Identifier:</b>	<b>Sterling Marking Products Inc., 349 Ridout Street North, London, ON Canada N6A 2N8 1-800-265-5957, 519-434-5785</b>
<b>Emergency Phone Number:</b>	<b>CANUTEC (613) 966-6666, Cellular *666</b>

**SECTION 2: HAZARD IDENTIFICATION**

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

**Classification of the substance or mixture:**

Classification (EC 1272/2008)

**Physical and Chemical Hazards:** Flam. Liq. 2 - H225

**Human health EUH066;** Eye Irrit. 2 - H319; STOT SE 3 - H336

**Environment:** Not classified.

Classification (1999/45/EEC) Xi; R36. F; R11. R66, R67.

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

**Human health:**

See section 11 for additional information on health hazards.

**Environment:**

The product contains a substance which may cause long term adverse effects in the aquatic environment.

**Physical and Chemical Hazards:**

Vapours are heavier than air and may travel along the floor and in the bottom of containers.

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

Highly Flammable Liquid and Vapour

May cause Drowsiness or Dizziness

Causes serious Eye Irritation

**Precautionary 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 ignition sources. No smoking.

Avoid breathing vapours

Vapours are heavier than air

Wear protective gloves and eye protection

Wash hands and skin thoroughly after handling  
 Supplementary Precautionary Statements  
 Ground/bond container and receiving equipment.  
 Use only non-sparking tools.  
 Take precautionary measures against static discharge.  
 Avoid breathing dust/fume/gas/mist/vapours/spray.  
 In case of fire: Use foam, carbon dioxide, dry powder or water fog for extinction.  
 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 IF INHALED: 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.  
 Dispose of contents/container in accordance with local regulations.  
 Supplemental label information

Repeated exposure may cause skin dryness or cracking.

If in eyes, flush eyes thoroughly with water for several minutes. Remove contact lenses after the initial 1-2 minutes and continue flushing for several additional minutes. If effects occur consult a physician, preferably an ophthalmologist.  
 If ingested, there is no specific antidote. Do not induce vomiting. Seek prompt medical attention.

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

Chemical Name	CAS Number	Percentage (%)	Other Identifiers
Acetone	67-64-1	<1%	EC No. 200-662-2
Butanone	78-93-3	50% - 70%	EC No. 201-159-0
Ethanol	64-17-5	1% - 5%	EC No. 200-578-6
Propan-2-OL	67-63-0	<1%	EC No. 200-661-7
Silquest A-187 Silane	2530-83-8	1% - 5%	None available

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

This product contains organic solvents.

**SECTION 4: FIRST AID MEASURES**

**General information.**

**NOTE! Keep affected person away from heat, sparks and flames!**

**Inhalation:**

Move the exposed person to fresh air at once. 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 affected person from source of contamination. Wash the skin immediately with soap and water. Get medical attention if any discomfort continues.

**Eye contact:**

Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Immediately transport to hospital or eye specialist.

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

**General information:**

The severity of the symptoms described will vary dependent of the concentration and the length of exposure.

**Inhalation:**

Vapours may cause headache, fatigue, dizziness and nausea.

**Ingestion:**

May cause nausea, headache, dizziness and intoxication.

**Skin contact:**

Prolonged contact may cause redness, irritation and dry skin.

**Eye contact:**

May cause severe irritation to eyes.

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

No recommendation given, but first aid may still be required in case of accidental exposure, inhalation or ingestion of this chemical. If in doubt, GET MEDICAL ATTENTION PROMPTLY!

**Notes to Physician:** No specific antidote. Treatment based on sound judgement of physician and individual reactions of patient. First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection).

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

Water fog or fine spray, carbon dioxide, dry chemical, foam. Alcohol resistant foams (ATC type) are preferred if available. General purpose synthetic foams (including AFFF) or protein foams may function but much less effectively.

**Unsuitable Extinguishing Media:**

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

**Specific Hazards arising from the Product:**

Hazardous combustion products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

**Unusual Fire & Explosion Hazards:**

Take precautionary measures against static discharges.

**Specific Hazards:**

Fire creates: Toxic gases/vapours/fumes of: Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>)**Hazardous**

**Decomposition/Combustion Materials (under fire conditions):**

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

**Special Protective Equipment:**

Fire fighters should wear full protective clothing including self-contained breathing equipment.

**Special Fire Fighting Procedures:**

Keep run-off water out of sewers and water sources. Dike for water control. If risk of water pollution occurs, notify appropriate authorities.

Use water to keep fire exposed containers cool and disperse vapours. Move container from fire area if it can be done without risk.

**SECTION 6: ACCIDENTAL RELEASE MEASURES****Personal Precautionary Measures:**

Wear appropriate protective equipment.

**Environmental Precautionary Measures:**

Prevent entry into sewers or streams, dike if needed.

**Methods and material for containment and cleaning up:**

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Clean-up personnel should use respiratory and/or liquid contact protection.

Runoff or release to sewer, waterway or ground is forbidden.

Small Spillages: Collect with absorbent, non-combustible material into suitable containers.  
Large Spillages: Absorb in vermiculite or dry sand and dispose of at a licensed hazardous waste collection point.  
Inform Authorities if large amounts 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 vapour. Keep the containers closed when not in use. Use with adequate ventilation. Never use air pressure for transferring product. No smoking or open flame in storage, use or handling areas. Ensure proper electrical grounding procedures are in place. Use non-sparking tools. Containers, even those that have been emptied, will retain product residue and vapour and should be handled as if they were full until they have been cleaned. This product is a poor conductor of electricity and can become electrostatically charged during handling and use (for example: during mixing, filtering or pumping). If this charge reaches a sufficiently high level, static discharges or sparks capable of causing ignition might occur. Risk of vapour concentration on the floor and in low-lying areas.

**Conditions for Safe Storage:**

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

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

**Control Parameters**

Chemical Name	STD	TWA – 8 Hrs.		STEL – 15 Min.		Notes
Acetone	WEL	500 ppm	1210 mg/m <sup>3</sup>	1500 ppm	3620 mg/m <sup>3</sup>	
Butanone	WEL	200 ppm	600 mg/m <sup>3</sup>	300 ppm	899 mg/m <sup>3</sup>	Sk
Ethanol	WEL	1000 ppm	1920 mg/m <sup>3</sup>			
Propan-2-OL	WEL	400 ppm	999 mg/m <sup>3</sup>	500 ppm	1250 mg/m <sup>3</sup>	

WEL = Workplace Exposure Limit. Sk = Can be absorbed through skin.

PROPAN-2-OL (CAS: 67-63-0)

Ingredient Comments

WEL = Workplace Exposure Limits

ACETONE (CAS: 67-64-1)

Ingredient Comments

WEL = Workplace Exposure Limits

**Appropriate Engineering Controls:**

Local exhaust ventilation as necessary to maintain exposure to within acceptable limits.

**Personal Protective Equipment**

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

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

**Skin Protection:** The selection of personal protective equipment varies depending upon conditions of use. Skin contact should be prevented through use of suitable protective clothing, gloves and footwear, selected for conditions of use and

exposure potential. Consideration must be given both to durability as well as permeation resistance. Impervious clothing. Impervious boots.

**Eyes:** Chemical goggles; also wear a face shield if splashing hazard exists.

**Environmental Exposure Controls:** Keep container tightly sealed when not in use.

**Other Personal Protection Data:** Ensure that eyewash stations and safety showers are proximal to the work station location.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** Liquid.

**Colour:** Black

**Odor:** Ketonic

**pH:** Not available.

**Specific Gravity:** approx. 0.88

**Boiling Point:** approx. 75 - 85°C

**Freezing/Melting Point:** -86°C

**Vapour Density:** (air = 1) >1

**Solubility:** Slightly soluble in water. Soluble in organic solvents.

**Viscosity:** 3.73 – 4.99 cP

**Flash Point (°C):** -4° TCC (Tag Closed Cup)

**Auto-Ignition Temperature:** approx. 515°C

**Molecular Weight:** Not available.

**Other:** Not available.

## SECTION 10: STABILITY AND REACTIVITY

**Reactivity:**

Not reactive.

**Chemical Stability:**

Stable.

**Hazardous Polymerization:**

Not Available.

**Conditions to Avoid:**

Product can oxidize at elevated temperatures. Avoid contact with strong oxidizers. Avoid contact with heat, sparks, open flame and static discharge.

**Materials to Avoid:**

Oxidizing materials. Strong acids or bases.

**Hazardous Decomposition Products:**

Decomposition products can include and are not limited to: Carbon monoxide. Carbon dioxide.

**Additional Information:**

No additional remarks.

## SECTION 11: TOXICOLOGICAL INFORMATION

**Information on toxicological effects.**

**Toxicological information:** No information available.

**Acute toxicity:**

**Acute Toxicity (Oral LD50):**

Not determined.

**Acute Toxicity (Dermal LD50):**

Not determined.

**Acute Toxicity (Inhalation LC50):**

Not determined.

**Germ cell mutagenicity:**

**Genotoxicity - In Vitro:**

Not determined.

**Carcinogenicity:**

**Carcinogenicity:**

Not determined.

**Reproductive Toxicity:**

**Reproductive Toxicity – Fertility:**

Not determined.

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

**STOT - Single exposure:**

No information available.

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

**STOT - Repeated exposure:**

No information available.

**Aspiration hazard:**

Not anticipated to present an aspiration hazard based on chemical structure.

**Inhalation:**

Vapours may cause headache, fatigue, dizziness and nausea.

**Ingestion:**

May cause nausea, headache, dizziness and intoxication.

**Skin contact:**

Acts as a defatting agent on skin. May cause cracking of skin, and eczema.

**Eye contact:**

Irritating to eyes.

**Route of entry:**

Ingestion. Skin absorption. Inhalation.

**Medical Symptoms:**

**NERVOUS SYSTEM.**

Drowsiness, dizziness, disorientation, vertigo. Mild intoxication (incl. fatigue, lassitude, irritability, headache, nausea).

**SECTION 12: ECOLOGICAL INFORMATION**

**Ecotoxicity:**

No data on possible environmental effects have been found.

**Toxicity:**

**Acute Fish Toxicity:**

Avoid discharge to the aquatic environment.

**Persistence and degradability:**

**Degradability:**

There are no data on the degradability of this product.

**Bioaccumulative potential:**

**Bioaccumulative potential:**

No data available on bioaccumulation.

**Mobility in soil:**

**Mobility:**

The product contains volatile organic compounds (VOC) which will evaporate easily from all surfaces.

**Results of PBT and vPvB assessment:**

Not Classified as PBT/vPvB by current EU criteria.

**Other adverse effects:**

Not determined

**SECTION 13: DISPOSAL CONSIDERATIONS****General information:**

Waste is classified as hazardous waste. Disposal to licensed waste disposal site in accordance with the local Waste Disposal Authority.

**Waste treatment methods:**

Dispose of waste and residues in accordance with local authority requirements.

**SECTION 14: TRANSPORT INFORMATION****UN number:**

UN No. (ADR/RID/ADN) 1210

UN No. (IMDG) 1210

UN No. (ICAO) 1210

**UN proper shipping name:**

Proper Shipping Name PRINTING INK

**Transport hazard class(es):**

ADR/RID/ADN Class 3

ADR/RID/ADN Class: Class 3: Flammable liquids.

ADR Label No. 3

IMDG Class 3

ICAO Class/Division 3

Transport Labels

**Packing group**

ADR/RID/ADN Packing group II

IMDG Packing group II

ICAO Packing group II

**Environmental hazards**

Environmentally Hazardous Substance/Marine Pollutant

No.

**Special precautions for user**

EMS F-E, S-D

Emergency Action Code •3YE

Hazard No. (ADR) 33

Tunnel Restriction Code (D/E)

**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

**SECTION 15: REGULATORY INFORMATION**

**Safety, health and environmental regulations/legislation specific for the substance or mixture**

Approved Code Of Practice

Safety Data Sheets for Substances and Preparations. Classification and Labelling of Substances and Preparations

Dangerous for Supply.

**Guidance Notes**

Workplace Exposure Limits EH40.

**EU Legislation**

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

**Chemical Safety Assessment**

No chemical safety assessment has been carried out.

**WHMIS Hazardous Class:**

B2 FLAMMABLE LIQUIDS

**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.

**Information Sources:**

Croner's: Substances Hazardous to Health. Croner's: Emergency First Aid Guide.

**Risk Phrases In Full:**

R11 Highly flammable

R36 Irritating to eyes.

R66 Repeated exposure may cause skin dryness or cracking.

R67 Vapours may cause drowsiness and dizziness.

**Hazard Statements In Full:**

H319 Causes serious eye irritation.

H225 Highly flammable liquid and vapour.

H336 May cause drowsiness or dizziness.

EUH066 Repeated exposure may cause skin dryness or cracking.

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*End of SDS.*