

Part Number(s): 1061-02, 1061-61

MATERIAL SAFETY DATA SHEET

SECTION I - MATERIAL IDENTIFICATION AND USE

Material Name Identifier:

1061 Ink (Red, Purple, Blue, Green, Brown)

Supplier Name: Sterling Marking Products Inc. Webpage: <http://www.sterling.ca>
 Street Address: 349 Ridout St. N., P.O. Box 5055
 City and Province: London, Ontario Postal Code: N6A 5S4
 Telephone Numbers: (519) 434-5785, (800) 265-5957 Fax Number: (519) 434-9516, (800) 667-6600
 Emergency Telephone Number: Poison Control Centre _____
 Material Use: **Ink**

TDG Shipping Information:

PRINTING INK, Flammable, UN1210, Class: 3
PG: II - Medium Danger

Emergency Response Guide Book No.: 129

WHMIS Classification:

Class B, Division 2 - Flammable Liquids
 Class D, Division 2B - Skin/Eye Irritant

IATA Shipping (Air):

PRINTING INK, Flammable
Packaging Instruction for Limited Quantity: Y305
Maximum Net Quantity (per outer package or over pack): 1L
 Refer to Pkg. Inst. No. for type of inner packaging and maximum quantity per inner package.

SECTION II - HAZARDOUS INGREDIENTS

Component	CAS Registry	Toxicology	Concentration % (w/w)
Ethanol	64-17-5	TLV: 1000ppm L _D 50: 3945mg/kg (oral, rat) L _C 50: 20,000ppm/10H (inhalation, rat)	10-30
2-Propoxyethanol	2807-30-9	TLV: Not available L _D 50: Not available L _C 50: Not available	30-60
Propyl acetate	109-60-4	ACGIH TLV: 200ppm TWAEV: 200ppm STEV: 250ppm L _D 50: Not available L _C 50: Not available	N/av

SECTION III - PHYSICAL DATA

Physical State: Liquid	% Volatile: Not available
Specific Gravity: 8 lbs/gal	Boiling Point (°C): 115
Colour: Various	Odour: Glycol ether (alcoholic)
Viscosity: Not available	Solubility in Water (20 °C): Partial
Clarity: Opaque	Flash Point (°C): 12
Vapour density (AIR = 1): >1	Evaporation Rate (Butyl Acetate = 1): >1



SECTION IV - FIRE AND EXPLOSION DATA

Flammability: Flammable

Flash Point (°C TCC): 12

LEL (% vol) lowest value of components: Not established

UEL (% vol) highest value of components: Not established

Hazardous Combustion Products: Oxides of carbon, oxides of nitrogen. Fire will produce irritating, corrosive and/or toxic gases.

Potential Hazards: **HIGHLY FLAMMABLE:** Will be easily ignited by heat, sparks or flames. Vapours may form explosive mixtures with air. Vapours may travel to source of ignition and flash back. Most vapours are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapour explosion hazard indoors, outdoors or in sewers. Runoff to sewer may create fire or explosion hazard. Containers may explode when heated. Many liquids are lighter than water.

Small Fire: CAUTION: This product has a low flash point: Use of water spray when fighting fire may be inefficient.

Means of Extinction of Small Fire: Dry chemical, carbon dioxide, water spray or alcohol-resistant foam. Do not use dry chemical extinguishers to control fires involving nitromethane or nitroethane

Large Fire: Water spray, fog or alcohol-resistant foam. Do not use straight streams. Move containers from fire area if you can do it without risk.

Fire involving Tanks or Car/Trailer Loads: Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Cool containers with flooding quantities of water until well after fire is out. Withdraw immediately in case of rising sound from venting safety devices or discolouration of tank. ALWAYS stay away from tanks engulfed in fire.

Means of Extinction of Massive Fire: For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn.

Evacuation Procedure: If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 metres (1/2 mile) in all directions; also, consider initial evacuation for 800 metres (1/2 mile) in all directions. Fire-Fighters should wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only provide limited protection.

SECTION V - REACTIVITY DATA

Stability: Stable

Incompatibility: Amines, alkalies, strong acids, oxidizers.

Hazardous Decomposition Products: Oxides of carbon, oxides of nitrogen, water, Fire will produce irritating, corrosive and/or toxic gases.

SECTION VI - TOXICOLOGICAL PROPERTIES

Route of Entry: Eye, Skin, Inhalation, Ingestion

Effects of Acute Exposure:

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Eye: Liquid and vapour may cause irritation.

Skin: May cause skin irritation. May cause toxic effects if inhaled or absorbed through the skin.

Inhalation: Vapours at high concentrations may cause dizziness or suffocation.

Ingestion: May be harmful in sufficient quantities. Persons on Disulfiram (Antabuse R) therapy should be aware that the ethyl alcohol in this product is hazardous to them, just as alcohol from any source. Disulfiram reactions may follow ingestion of small amounts of alcohol and have also been described from skin contact. Reports of animal test studies, on one or more of the individual ingredients, have shown possible effects to the liver and kidneys. The relevance of these effects to man is unknown.

Notes: Ethanol reacts with aluminum at high temperatures.

Effects of Chronic Exposure:

Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

Pregnant women and persons with pre-existing health disorders should consult their physician before using this product.

Persons with pre-existing skin or lung disorders may be susceptible to the effects of this material. Repeated and prolonged overexposure, and/or individual sensitivity, may increase the potential for, and degree of, adverse health effects.

Irritancy: Hazardous by WHMIS criteria

Respiratory Tract Sensitization: Not established

Carcinogenicity: Not hazardous by WHMIS criteria

Synergistic Materials: Not established

Reproductive Effects: Not established

Teratogenicity: Not established

Mutagenicity: Not established

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: Proper selection of respiratory protection depends upon many factors, including duration and level of exposure and conditions of use. In general, exposure to organic chemicals, such as those contained in this product, may not require the use of respiratory protection, if used in a well-ventilated area. In areas of restricted ventilation, a NIOSH approved organic vapour respirator may be required. Under certain conditions, such as spraying, a mechanical pre-filter may also be required. In confined areas, or in high exposure situations, a NIOSH/MSHA approved air-supplied respirator may be required. If the TLV's listed in Section II are exceeded, use a properly fitted NIOSH/MSHA approved respirator with an appropriate protection factor.

Other Protective Equipment: Safety shower and eye wash fountain in the immediate work area.

Engineering Controls: Use general dilution and local exhaust in sufficient volume, and pattern to keep concentrations of hazardous ingredients listed in Section II below the lowest exposure limit stated. Fumes emitted while baking this product must be properly vented.

Leak and Spill Procedure:

- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).
- All equipment used when handling the product must be grounded.
- Do not touch or walk through spilled material.
- Stop leak if you can do it without risk.
- Prevent entry into waterways, sewers, basements or confined areas; run-off from fire control or dilution water may cause pollution.
- A vapour suppressing foam may be used to reduce vapours. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.
- Use clean, non-sparking tools to collect absorbed material.
- Dike far ahead of liquid spill for later disposal.
- Water spray may reduce vapour; but, may not prevent ignition in closed spaces.
- EVACUATION: Consider initial downwind evacuation for at least 300 metres (1000 feet).

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: In case of contact with substance, immediately flush eyes with running water for at 15 minutes.

Skin: Remove and isolate contaminated clothing and shoes. Wash skin with soap and water.

Inhalation: Move victim to fresh air - Call 911 or emergency medical service. Apply artificial respiration if victim is not breathing. Administer oxygen if breathing is difficult.

Ingestion: Do not induce vomiting. Keep victim warm and quiet. Call 911 or emergency medical service.

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).