Part Number(s): 1015-1, 1015-1, 1015-2, 1015-4, 1015-8, 1015-16, 1015-32

MATERIAL SAFETY DATA SHEET

SECTION I - MATERIAL IDENTIFICATION AND USE

Material Name Identifier:

1015 Ink (All Colours), 1015 Foil Marking Ink

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:

XYLENOLS, LIQUID UN3430, Class: 6.1 - Poisonous Substances ; ; PG: II - Medium Danger

Emergency Response Guide Book No.: 153

WHMIS Classification:
Class B, Division 3 - Combustible Liquids
Class D, Division 1A - Very Acutely Toxic Material (Contains Phenol)
Class D, Division 2B - Skin/Eye Irritant

IATA Shipping (Air):
XYLENOLS, LIQUID
Packaging Instruction for Limited Quantity: Y641
Maximum Net Quantity (per outer package): 1L
Refer to Pkg. Inst. No. for inner packaging type and maximum quantity per inner package. DGR – 54th edition

SECTION II - HAZARDOUS INGREDIENTS

Component	CAS Registry	Toxicology	Concentration % (w/w)
Cresol	**1319-77-3**	TLV: Not available L_D50: 1454mg/kg (oral, rat) L_C50: Not available	1-3
Xylenol	**1300-71-6**	TLV: Not available L_D50: Not available L_C50: Not available	10-20
Phenol	**108-95-2**	TLV: Not available L_D50: 317 mg/kg (oral, rat) L_C50: Not available	3-7
Trimethylphenol	**527-60-6**	TLV: Not available L_D50: 10 gm/kg (oral, mouse) L_C50: Not available	3-7
Ethyl Phenol	**Not Available**	TLV: Not available L_D50: Not available L_C50: Not available	3-7

SECTION III - PHYSICAL DATA

Physical State: Liquid | % Volatile (by volume): ~ 70

Specific Gravity: 0.98 ± 0.05	Boiling Point (°C): 120
Colour: Various	Odour: Antiseptic
Viscosity: As water	Solubility in Water (20 °C): Insoluble
Clarity: Opaque	Flash Point (°C): 80

SECTION IV - FIRE AND EXPLOSION DATA

Flammability: Combustible Flash Point (°C TCC): 80
LEL (% vol) lowest value of components: Not established
UEL (% vol) highest value of components: Not established
Hazardous Combustion Products: Fire may produce irritating, corrosive and/or toxic gases. Contact with metals may evolve flammable hydrogen gas.

Potential Hazards: Combustible material: may burn but does not ignite readily. When heated, vapors may form explosive mixtures with air: indoors, outdoors, and sewers explosion hazards. Contact with metals may evolve flammable hydrogen gas. Containers may explode when heated. Runoff may pollute waterways. Substance may be transported in a molten form.

Means of Extinction of Small Fire: Dry chemical, CO2 or water spray.

Means of Extinction of Large Fire: Dry chemical, CO2, alcohol-resistant foam or water spray. Move containers from fire area if you can do it without risk. Dike fire control water for later disposal; do not scatter the material.

Fire Involving Tank or Rail Car: Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Do not get water inside containers. 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 discoloration of tank. ALWAYS stay away from tanks engulfed in fire.

Evacuation Procedure: Wear positive pressure self-contained breathing apparatus (SCBA). Wear chemical protective clothing which is specifically recommended by the manufacturer. It may provide little or no thermal protection. Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations.

- Isolate spill or leak area immediately for at least 25 to 50 meters (80 to 160 feet) in all directions.
- Keep unauthorized personnel away.
- Stay upwind.
- Keep out of low areas.
- Ventilate enclosed areas.

If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions.

SECTION V - REACTIVITY DATA

Stability: Stable
Incompatibility: None known
Hazardous Decomposition Products: Fire may produce irritating, corrosive and/or toxic gases. Contact with metals may evolve flammable hydrogen gas.

SECTION VI - TOXICOLOGICAL PROPERTIES

Route of Entry: Eye, Skin, Inhalation, Ingestion

Effects of Acute Exposure:

Eye: Severe irritation. Can cause corneal injury.
Skin: Severe irritation. Causes burns. Harmful if absorbed through skin. Avoid any skin contact.
Inhalation: Harmful if inhaled. Irritating to the nose, throat and respiratory tract. Effects of contact or inhalation may be delayed.
Ingestion: Harmful if swallowed. Causes severe burning and pain in mouth, throat and abdomen.

Effects of Chronic Exposure:

Skin: Can cause allergic skin reaction over prolonged and repeated 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 (PVC or butyl rubber).
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:

- Runoff from fire control or dilution water may be corrosive and/or toxic and cause pollution.
- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).
- Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
- Stop leak if you can do it without risk.
- Prevent entry into waterways, sewers, basements or confined areas.
- Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.
- DO NOT GET WATER INSIDE CONTAINERS.

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 skin or eyes with running water for at least 15 minutes. Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed.

Skin: Remove and isolate contaminated clothing and shoes. In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes. For minor skin contact, avoid spreading material on unaffected skin.

Inhalation: Move victim to fresh air. Call 911 or emergency medical service. Apply artificial respiration if victim is not breathing. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.
Administer oxygen if breathing is difficult.

Ingestion: If swallowed, dilute by giving two glasses of water to drink. Do not induce vomiting. Call physician immediately. Never give anything by mouth to an unconscious person.

SECTION IX - PREPARATION AND ADDITIONAL INFORMATION

Prepared by: Sterling Marking Products Inc.
Quality Planning and Engineering Department
349 Ridout St., N.
London, Ontario N6A 5S4

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Updated: October 27, 2014

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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).