

MSDS Reference Number(s): RS100, HRS-100, MM-100, MM-1000

**MATERIAL SAFETY DATA SHEET**

**SECTION I - MATERIAL IDENTIFICATION AND USE**

**Material Name Identifier:**

**RS-100 (Black) Ink,**

**Other Names: QDRS,(CRS-, GRS-, MM-, BM-, HRS-)-100,GSP-1000,SM-512, MM-1000**

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:**

**Not regulated**

**WHMIS Classification:**

Class D, Division 1B - Acutely Toxic Material (Contains diacetone alcohol)

Class D, Division 2B - Skin/Eye Irritant

**IATA Shipping (Air):**

Not regulated

**SECTION II - HAZARDOUS INGREDIENTS**

Component	CAS Registry	Toxicology	Concentration % (w/w)
Ethylene glycol	107-21-1	ACGIH TLV-CL 100 mg/m3 (aerosol) L <sub>D</sub> 50: 5500mg/kg (oral, mouse) L <sub>C</sub> 50: Not available	30-60
Diacetone alcohol	123-42-2	ACGIH TLV-TWA 50 ppm L <sub>D</sub> 50: 2520 mg/kg (oral, rat) L <sub>C</sub> 50: Not available	15-40

**SECTION III - PHYSICAL DATA**

Physical State: Liquid

Specific Gravity: 1.049

Colour: **Black**

Viscosity: Viscous (Thicker than water)

Clarity: Opaque

% Volatile: 91

Boiling Point (°C): 222

Odour: Strong

Solubility in Water (20 °C): Soluble

Flash Point (°C): 95

**SECTION IV - FIRE AND EXPLOSION DATA**

Flammability: Not flammable

Flash Point (°C TCC): 95

LEL (% vol) lowest value of components: 1.8

UEL (% vol) highest value of components: 6.9

Hazardous Combustion Products: Oxides of carbon

Means of Extinction: Carbon dioxide, dry chemical, alcohol foam

**SECTION V - REACTIVITY DATA**

Stability: Stable  
Incompatibility: Oxidizing materials  
Hazardous Decomposition Products: Oxides of carbon.

**SECTION VI - TOXICOLOGICAL PROPERTIES**

Route of Entry: Eye, Skin, Inhalation, Ingestion

Effects of Acute Exposure:

**Eye:** Can cause irritation, redness, tearing and blurred vision.

**Skin:** Prolonged or repeated contact can cause minor skin irritation.

**Inhalation:** Excessive inhalation of vapours can cause nasal and respiratory irritation. This product contains Diacetone alcohol [CAS #123-42-2], which, with a LC<sub>50</sub> value of 1000ppm, is considered to be an acute inhalation concern (WHMIS class 1B).

**Ingestion:** Can cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Effects of Chronic Exposure:

**Skin:** Prolonged or repeated contact can cause minor skin irritation.

**Inhalation:** Excessive inhalation of vapours can cause nasal and respiratory irritation.

**Irritancy:** Hazardous by WHMIS criteria

**Respiratory Tract Sensitization:** Insufficient data available

**Carcinogenicity:** Not hazardous by WHMIS criteria. ACGIH TLV-Not classifiable as human carcinogen

**Synergistic Materials:** No information available

**Reproductive Effects:** Insufficient data available

**Teratogenicity:** Insufficient data available

**Mutagenicity:** Insufficient data available

**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:** Where exposure guideline levels may be exceeded, use an approved air-purifying respirator.

**Other Protective Equipment:** As necessary to avoid prolonged contact.

**Engineering Controls:** Local exhaust recommended.

**Leak and Spill Procedure:** Before attempting clean-up, refer to hazard data given above. Keep spectators away. Eliminate all ignition sources. Dike and contain small spills with an inert material and placed in suitable, covered labeled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice.

**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**

**Eye:** Immediately flush with large amount of water, lifting upper and lower lids occasionally. Continue for at least 15 minutes. Get immediate medical attention

**Skin:** Remove contaminated clothing, use waterless skin cleaner, followed by soap and water wash. Obtain medical attention if irritation persists.

**Inhalation:** Remove to fresh air, immediately. If breathing has stopped, trained personnel should begin artificial respiration or CPR immediately. If breathing is difficult, trained personnel should administer oxygen. Get immediate medical attention, if warranted.

**Ingestion:** Do not induce vomiting. Rinse mouth with water, and then drink one glass of water. Get immediate medical attention. Never give anything by mouth if victim is unconscious, is rapidly losing consciousness or is convulsing.

**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

Supercedes: 22 May 2008  
Revision Date: 31 May 2011

**Expires: 31 May 2014**

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).