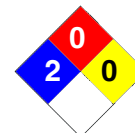


# MATERIAL SAFETY DATA SHEET

## SECTION I - PRODUCT IDENTIFICATION

**Product Name:** Spray Nine®  
**Product Use:** Disinfectant  
**WHMIS Class:** Exempt - Registered product - (DIN 02160331)  
**TDG Classification:** Not regulated as dangerous goods.  
**Manufacturer/Supplier:** Marino Manufacturing Ltd.  
59 Talman Court  
Concord, ON L4K 4L5 CA  
Phone: 905-669-9949  
Emergency Phone: 1-613-996-6666 (CANUTEC)

LEGEND HMIS/NFPA		Health	Flammability	Physical Hazard	Personal Protection
Severe	4	/	0	0	B
Serious	3				
Moderate	2				
Slight	1				
Minimal	0				



## SECTION II - HAZARDOUS INGREDIENTS

<u>In</u> redient(s)	<u>CAS #</u>	<u>Wt%</u>	<u>ACGIH-TLV</u>	<u>LC50</u>	<u>Oral LD50</u>
Nonyl phenoxy polyethoxy ethanol, branched	9016-45-9	1 - 5	Not established	Not available	1310 mg/kg rat
Ethylene glycol monobutyl ether	111-76-2	1 - 5	20 ppm - TWA	2.21 mg/l/4h rat	470 mg/kg rat; 320 mg/kg rabbit

## SECTION III - PHYSICAL DATA

<b>Boiling Point:</b>	100 °C (212.00 °F)	<b>Specific Gravity:</b>	1.02 (H <sub>2</sub> O = 1)
<b>Freezing Point:</b>	0 °C (32.00 °F)	<b>Coefficient of Water/Oil Distribution:</b>	Not available
<b>Vapour Pressure:</b>	18 mmHg	<b>% Volatile:</b>	95 %
<b>Vapour Density:</b>	Not available	<b>Evaporation Rate:</b>	> 1 (Ether = 1)
<b>Solubility in Water:</b>	Complete	<b>pH:</b>	12.7
<b>Physical State:</b>	Liquid	<b>Viscosity:</b>	Water thin
<b>Appearance:</b>	Clear colourless	<b>Odour Threshold:</b>	Not available
<b>Odour:</b>	Characteristic		

## SECTION IV - FIRE AND EXPLOSION DATA

<b>Flammability:</b>	Does not sustain combustion in accordance with ASTM D4206.				
<b>Flash Point (TCC):</b>	83 °C (181.40 °F)	<b>LEL:</b>	Not available	<b>UEL:</b>	Not available
<b>Hazardous Combustion Products:</b>	May include and are not limited to: Hydrogen chloride. Oxides of nitrogen. Oxides of carbon.				
<b>Autoignition Temperature:</b>	Not available				
<b>Explosion Data:</b>					
<b>Sensitivity to Mechanical Impact:</b>	Not available				
<b>Sensitivity to Static Discharge:</b>	Not available				
<b>Means of Extinction:</b>	Treat for surrounding material.				
<b>Special Fire Hazards:</b>	Firefighters should wear a self-contained breathing apparatus.				

## SECTION V - REACTIVITY DATA

<b>Conditions for Chemical Instability:</b>	Stable under recommended storage conditions.
<b>Incompatible Materials:</b>	Oxidizers. Acids.
<b>Reactivity:</b>	Reacts violently with acids. This product may react with oxidizing agents.
<b>Hazardous Decomposition Products:</b>	May include and are not limited to: Hydrogen chloride. Oxides of nitrogen. Oxides of carbon.

## SECTION VI - TOXICOLOGICAL PROPERTIES

**Route of Entry:** Eye, Skin contact, Skin absorption, Inhalation, Ingestion.

**EFFECTS OF ACUTE EXPOSURE:**

- Eye:** Causes irritation.
- Skin:** Causes irritation. Components of the product may be absorbed into the body through the skin.
- Inhalation:** Inhalation of vapours or mists of the product may be irritating to the respiratory system.
- Ingestion:** May cause stomach distress, nausea or vomiting.

**EFFECTS OF CHRONIC EXPOSURE:**

- Skin:** Prolonged or repeated exposure can cause drying, defatting and dermatitis.
- Irritancy:** Hazardous by WHMIS criteria.
- Respiratory Tract Sensitization:** Non-hazardous by WHMIS criteria.
- Carcinogenicity:** Non-hazardous by WHMIS criteria.
- Teratogenicity:** Non-hazardous by WHMIS criteria.
- Mutagenicity:** Non-hazardous by WHMIS criteria.
- Reproductive Effects:** Non-hazardous by WHMIS criteria.
- Synergistic Materials:** Not available

---

**SECTION VII - PREVENTATIVE MEASURES**

---

- Gloves:** Rubber gloves. Confirm with a reputable supplier first.
- Eye Protection:** Safety glasses
- Respiratory Protection:** Not normally required if good ventilation is maintained.
- Other Protective Equipment:** As required by employer code.
- Engineering Controls:** General ventilation normally adequate.
- Leak and Spill Procedure:** Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. Remove sources of ignition.
- Waste Disposal:** Review federal, provincial, and local government requirements prior to disposal.
- Handling Requirements:** Use good industrial hygiene practices in handling this material. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.
- Storage Requirements:** Keep out of reach of children. Store in a closed container away from incompatible materials. Keep away from heat, open flames or other sources of ignition.

---

**SECTION VIII - FIRST AID**

---

- Eye:** Immediately flush with cool water. Remove contact lenses, if applicable, and continue flushing for 15 minutes. Obtain medical attention if irritation develops or persists.
- Skin:** Immediately flush with water. Wash with soap and water. Obtain medical attention if irritation persists.
- Inhalation:** If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.
- Ingestion:** Do not induce vomiting. Rinse mouth with water, then drink one or two glasses of water. Obtain medical attention. Never give anything by mouth if victim is unconscious, or is convulsing.

---

**SECTION IX - PREPARATION INFORMATION**

---

**Effective Date:** 15-Dec-2008

**Expiry Date:** 15-Dec-2011

**Prepared By:** Dell Tech Laboratories Ltd. (519) 858-5021

Information contained herein 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 control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.