



DIXON TICONDEROGA COMPANY

"Since 1795"

A COMPANY

# Material Safety Data Sheet

## Ticonderoga RediSharp Plus Permanent Markers

### 1. Chemical product and Company Identification

**Company Identification:** Dixon Ticonderoga Company  
 195 International Parkway  
 Heathrow, FL 32746-5036  
 Telephone: 800-824-9430

**Date prepared:** 4-Sep-09  
**Last revised:** 4-Sep-09  
**Emergency call: 800-824-9430**

**Product Name:** Ticonderoga RediSharp Plus Permanent Markers  
**Product Code(s):** 98201, 98204, 98207, 98208, 98240, 98244, 98280, 98307, 98401, 98404, 98407, 98408, 98440

### 2. Composition/Information On Ingredients

Component	CAS Reg. No
CARBON BLACK	1333-86-4
ETHYLENE GLYCOL	107-21-1
ISOPROPYL ALCOHOL	67-63-0
*AMMONIA	7664-41-7
1,2-BENZISOTHIAZOLIN-3-ONE	2634-33-5
ANTISEPTICS	REGISTERED

\* AMMONIA is derived from aqueous ammonia.

### 3. Hazards Identification

**EC Classification :** Sensitising  
**Risk phrase :** R43: May cause sensitization by skin contact.

### 4. First Aid Measures

**Eye Contact:** Irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 15 min. Obtain medical attention.

**Skin Contact:** Remove contaminated clothing. Wash affected skin with soap and water for at least 15min. If symptoms develop, obtain medical attention.

**Ingestion:** Wash out mouth with water. Obtain medical attention.

**Inhalation:** Remove patient from exposure, keep warm and at rest. Obtain medical attention if ill effects occur.

### 5. Fire Fighting Measures

**Extinguishing Media:** Alcohol-resistant foam, water spray, dry chemical powder, carbon dioxide.  
**Special Fire Fighting Procedures:**  
**Unusual Fire and Explosion Hazards:** No specific hazards are known.

**Flammability Data:**

**Flash Point:**

**Flammability limits:**

**Auto-ignition temperature:**

**Dust cloud ignition temperature:**

**Dust layer ignition temperature:**

HMIS Ratings		
Health		
Flammability		
Reactivity		
Protective Equipment		

### 6. Accidental Release Measures

**Personal Precautions :** Avoid contact with spilled or released material.  
**Environmental Precautions :** Scoop or sweep & transfer into a closed container.  
 Keep waste out of sewers.

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**Method for cleaning up :** Avoid release to the environment. Contain and absorb large spillages onto the absorbent carrier. Transfer to a lidded container for later safe disposal. Earth may be shovelled to contain spillage and to avoid contamination of sewers and watercourses.

### 7. Handling and Storage

**Handling:** Avoid contact with eyes, skin and clothing. Keep container closed. Keep away from extreme heat or cold. Wash thoroughly after handling. Handling temperature : Below 30°C and above 0°C.

**Storing:** Keep container tightly closed until ready for use. Keep away extreme heat or cold. Keep out of the reach of the children. Storing temperature : Below 30°C above 0°C.

### 8. Exposure Controls/Personal Protection

**Engineering Measures :** Provide adequate ventilation. Local exhaust ventilation is recommended.

Ensure that eyewash stations and safety showers are proximal to the work-station location.

**Personal protection:**

Hand protection - Chemical resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products.

Eye protection - Safety eyewear complying with an approved standard should be used to avoid exposure to liquid splashes, mists, gases, or dust.

Protective Clothing - Use protective clothing which is chemical resistant to this material. Safety shoes and boots should also be chemical resistant.

#### Occupational Exposure Limits

Components	CAS No.	Type	Value	Source
Ethylene Glycol	107-21-1	STEL	100mg/m <sup>3</sup> (aerosol)(ceiling)	ACGIH TLV

### 9. Physical and Chemical Properties

<b>Physical State:</b>	Liquid
<b>Appearance:</b>	Uniform liquid
<b>Color :</b>	Black, Blue, Red, Green
<b>Odor:</b>	Slight odor
<b>pH:</b>	Not available
<b>Specific gravity:</b>	Not available
<b>Boiling point:</b>	Not available
<b>Freezing/melting point:</b>	Not available
<b>Evaporation rate:</b>	Not available
<b>Solubility:</b>	Miscible at any rate
<b>Volatility:</b>	Not available

### 10. Stability and Reactivity

**Stability:** Stable at room temperature in closed containers under normal storage and handling conditions.

**Conditions to avoid :** Heat and cold temperature below zero (Celsius)

**Incompatibility:** None

**Hazardous decomposition:** None

### 11. Toxicological Information

**Acute/Chronic Toxicity :** LD50:4,700mg/kg, Rat (as Ethylene glycol)

**Carcinogenicity :** Carbon black is classified as group 2B (possible for human) by IARC.

**Mutagenicity :** Not available

### 12. Ecological Information

This product has not been evaluated for overall environmental effects

### 13. Disposal Considerations

Contain and place in approved container. Dispose of per Local, State, and Federal regulations

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**14. Transportation Information**

<b>DOT Classification:</b>	None	<b>UN/NA Number:</b>	Not restricted
<b>TDG Classification:</b>	None	<b>IMO/IMDG Classification:</b>	None
<b>ADR/RID Classification:</b>	None	<b>ICAO/IATA Classification:</b>	Not restricted

**15. Regulatory Information**

<b>OSHA Hazard Communication Status</b>	N/A
<b>Toxic Substances Control Act (TSCA) Status</b>	

**16. Other Information**

<b>For further product safety information call</b>	<b>800-824-9430</b>	<b>Validated and Verified by Dixon Ticonderoga Co.</b>
		<b>Today's Date: 9/9/09</b>

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