

# Material Safety Data Sheet

MSDS#: 198-17

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Sanford Corporation  
2711 Washington Boulevard  
Bellwood, IL 60104

Telephone Number: 1-800-323-0749  
Initiated By: Susan Nyborg  
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Medical Emergency No: 1-800-228-5635

## Section One: Product Identification

Product Name Expo<sub>R</sub> Dry Erase Markers – Bullet, Chisel, and Ultra Fine Point

Colors: Black, Red, Blue, Green, Yellow, Orange, Brown, Purple

Sanford Corporation is a member of The Art and Creative Materials Institute, Inc. This product is certified by the Institute to be labeled in accordance with the voluntary chronic hazard labeling standard ASTM D4236 and is labeled with the AP Non-Toxic Seal. Products bearing the AP Approved Product Seal of The Art and Creative Materials Institute, Inc. are certified in a program of toxicological evaluation by a medical expert, subject to review by the Institute Toxicology Advisory Board, to contain no materials in sufficient quantities to be toxic or injurious to humans, or to cause acute or chronic health problems.

## Section Two: Composition

Pigments, resins, methyl isobutyl ketone (108-10-1), n-butyl acetate (123-86-4)

## Section Three: Physical and Chemical Characteristics

### For methyl isobutyl ketone:

Boiling Point: 237-243<sup>o</sup>F at 760 mm Hg  
Vapor Pressure (mm Hg): 16 mm Hg at 20<sup>o</sup>C  
Specific Gravity: 0.800-0.803 at 68<sup>o</sup>F  
Solubility in Water: Not available  
Appearance and Odor: Mobile clear liquid; strong ketone odor  
Evaporation Rate: 1.64 (n-butyl acetate = 1)

## Section Four: Fire and Explosion Hazard Data

Flash Point (Method Used): 60<sup>o</sup>F (TCC) for methyl isobutyl ketone  
Flammability Limits (% by volume): Lower: 1.4% Upper: Not available  
Extinguishing Medium: N/A  
Special Fire Fighting Procedures: N/A  
Unusual Fire and Explosion Hazards: N/A

**Section Five: Reactivity Data**

Stability:	Stable
Conditions to Avoid:	None known
Chemical Incompatibility:	None known
Hazardous Decomposition:	None known
Hazardous Polymerization:	Will not occur.

**Section Six: Health Hazard Data**

Chemicals Listed as Carcinogens or Potential Carcinogen:

IARC Monographs:	No
National Toxicology Program:	No
OSHA Regulated:	No

This product is considered safe under normal use conditions.

**Section Seven: Precautions for Safe Handling and Use**

Steps to Be Taken in Case Material Is Released or Spill:	Wipe up with absorbent material.
Waste Disposal Method:	Dispose in accordance with Federal, State, and Local Regulations.
Precautions to Be Taken in Handling and Storage:	Do not shake marker. Keep cap on marker when not in use. Store markers horizontally.
Other Precautions:	None

**Section Eight: Personal Protection and Exposure Control Measures**

Eye Protection:	None under normal use conditions.
Skin Protection:	None under normal use conditions.
Respiratory Protection:	None under normal use conditions.
Ventilation:	None under normal use conditions.
Protective Clothing:	None under normal use conditions.

HMIS Code	
Health	N/A
Flammability	N/A
Reactivity	N/A
Personal Protection	N/A

Sanford Corporation has been advised by council that the OSHA Hazard Communication Standard does not apply to the Sanford product described in this MSDS. The reason for the exemption is contained in 29 CFR 1910.1200 (b)(6)(ix), as amended July 1, 1994, per the Code of Federal Regulations. The information contained in this MSDS is forwarded to you for your information, but is not meant to imply that the product is covered by the Hazard Communication Standard, nor is the MSDS meant to comply with all the requirements of the Hazard Communication Standard.

0 = Minimal / 4 = Severe Hazard