

SAN 81803

Sanford Corporation
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 Initiated by: Jamie Paulin
 Date of Last Revision: 11/11/98
 Medical Emergency No: 1-800-228-5635

Section 1 - Product Identification

Ink Name: Expo Dry Erase Cleaner
 Chemical Family: Mixture
 Formula: Trade Secret
 Colors: N/A

Section 2 - Ingredients

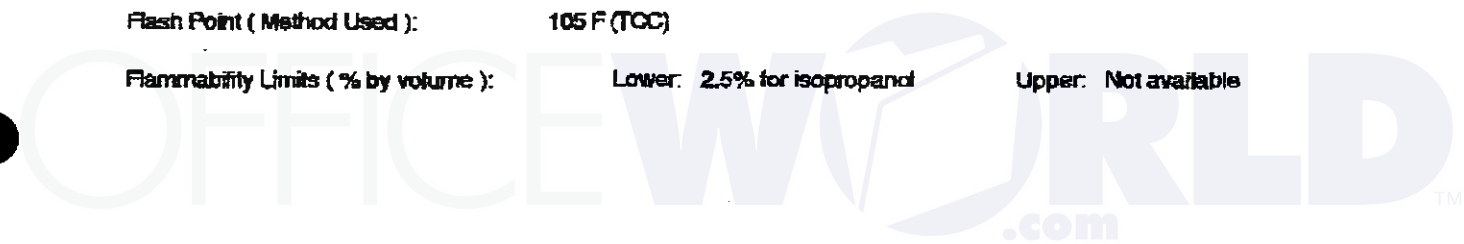
| Ingredients: | CAS No: | % by Weight: | PEL / TLV: |
|--------------------------------------|----------|--------------|--------------------------------------|
| Water | N/A | 40 - 70 | N/A |
| Isopropanol | 67-63-0 | 10 - 40 | 400 ppm TWA / 500 ppm STEL (ACGIH) |
| Ethylene glycol - monobutyl ether | 111-76-2 | 10 - 30 | 25 ppm TWA (skin) (ACGIH) |

Section 3 - Physical / Chemical Characteristics

Boiling Point: 180 - 343 F
 Vapor Pressure: 33 at 68 F for isopropanol
 Specific Gravity: 0.96
 Solubility in Water: Complete
 Appearance / Odor: Clear liquid, alcoholic odor
 Evaporation Rate: Not available
 pH: 5.3 +/- 1.2

Section 4 - Fire and Explosion Hazard Data

Flash Point (Method Used): 105 F (TCC)
 Flammability Limits (% by volume): Lower: 2.5% for isopropanol Upper: Not available



Extinguishing Medium: Alcohol foam, carbon dioxide or dry chemical

Special Fire Fighting Procedures: None known

Unusual Fire and Explosion Hazards: Heavier than air vapors, may be ignited by remote sources

Section 5 - Reactivity Data

Stability: Stable

Conditions to Avoid: None known

Chemical Incompatibility: Strong oxidizers, acids, isocyanates

Hazardous Decomposition: None known

Hazardous Polymerization: None

Section 6 - Health Hazard Data

Routes of Entry:

By Inhalation: Nasal or respiratory irritation, nausea, headache, dizziness, weakness.

Skin: Negative for primary skin irritation.

Eye: Eye irritant.

By Ingestion: Gastrointestinal irritation, nausea, vomiting, diarrhea.

First Aid Procedures:

Inhalation: Remove to fresh air, contact physician if symptoms persists.

Skin Contact: Wash thoroughly with soap and water.

Eye Contact: Flush with large amounts of water and contact physician.

Ingestion: Induce vomiting and contact a physician.

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Chemical Listed as Carcinogen or Potential Carcinogen:

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

Section 7 - Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled: Eliminate all ignition sources. Stop spill at source and prevent the material from entering drains, sewers, streams or other bodies of water. Soak up with absorbent material and transfer to proper container for disposal, using appropriate personal protective equipment.

Waste Disposal Method: In accordance with Federal, State, and Local Regulations.

Precautions to be Taken in Handling and Storing: N/A

Other Precautions: N/A

Shipping Information: Flammable Liquids, N.O.S. (isopropanol), 3, UN1993, PGIII

Section 8 - Personal Protection and Exposure Control Measures

Eye Protection: OSHA approved goggles for splash protection.

Skin Protection: Chemical resistant gloves.

Respiratory Protection: NIOSH/MSHA jointly approved respirators if TLV's are exceeded.

Ventilation: Provide sufficient general or local exhaust to keep exposure below TLV's.

Protective Clothing: N/A

| HMS | Code |
|----------------------|------|
| Health: | 2 |
| Flammability: | 2 |
| Reactivity: | 0 |
| Personal Protection: | - |

0=Minimal / 4=Severe Hazard

This MSDS is provided for the purpose of disclosing Product Hazards and does not constitute Product Specification. The information is believed to be reliable and accurate. However, we recommend that you make tests to determine the suitability of a product for your particular purpose prior to use. All warranties, either expressed or implied, are hereby disclaimed.