

# Material Safety Data Sheet

January 4, 2010

## Product Identification: NISSEN HIGH TEMPERATURE METAL MARKER - WHITE

J.P. Nissen Co.  
2544 Fairhill Avenue  
P.O. Box 339  
Glenside, PA 19038

Phone: 215-886-2025  
Fax: 215-886-0707  
Emergency: 1-800-424-9300

HMIS Ratings- Health 1 Flammability 2 Reactivity 1  
NFPA Ratings- Health 1 Flammability 2 Reactivity 0

**Hazardous ingredients** – The information on this MSDS sheet refers to paint used in markers, however it applies to these paints in bulk. The paint is contained in a valve action reservoir and will not leak under normal conditions.

<u>Ingredients</u>	<u>CAS#</u>	<u>%</u>	<u>Exposure Limits</u>
Mineral spirits	64742-88-7	0-1	100ppm/8-hrs pel
Urethane resin	proprietary	66-70	See note
Titanium dioxide	13463-67-7	30-35	5 mg/cu.m*
Organoclay	68911-87-5	1-2	0.1 mg/cu.m*

Note: Urethane Resin manufactured by Reichold Chemicals  
P.O. Box 13582 Research Triangle Park, NC 27709  
EMERGENCIES: 800-424-9300

\* Value applies to free dust, not as bound in a paint matrix.

### Physical Data

**Boiling point:** 318-385 F **Vapor density:** Heavier than air.

**Volatile %:** 37% by volume **Specific gravity:** Less than 1.

**Evaporation rate:** Slower than n-butyl acetate

**Appearance:** White viscous liquid with an aromatic odor.

**Volatile Organic Compound** data not required because product only produced in quantities of less than 1 liter

### Fire and Explosion Data

**Flammability Class:** 2 **Flashpoint:** 111 deg.F **LEL:**1% **UEL:** 7%

**Extinguishing Media:** Foam, Carbon dioxide, or any Class B extinguishing agent. Water may be unsuitable as an extinguishing medium, but helpful in keeping adjacent containers cool.

### Health Hazard Data

Listed as possible carcinogen: NTP – No IARC – OSHA – No

**Symptoms of over exposure:** Headache, Dizziness, Nausea, Coughing, Eye, Throat and Skin Irritation.

**Effects of overexposure:** Slight to severe irritation to eyes and mucous membranes. Dermatitis.  
Affects central nervous system.

**Emergency first aid:** Inhalation; seek fresh air. Give artificial respiration if not breathing.  
Skin contact; Wash with soap and water. Ingestion; Call Physician.

### Reactivity Data

**Stability:** Stable **Hazardous polymerization:** Will not occur.

**Conditions to avoid:** Heat, open flames and sparks.

**Incompatibility:** Do not expose to strong oxidizers.

**Hazardous decomposition products:** Carbon monoxide, carbon dioxide.

### Environmental Protection Procedures

Remove all sources of ignition, ventilate area, and use absorbent material to clean spills.

Disposal method: Dispose of waste in accordance with all local, state and federal regulations.

### Control Measures

**Respiratory protection:** None required under normal use.

**Ventilation:** Normal-working conditions.

**Protective Equipment:** Safety glasses or goggles and gloves. No special clothing required under normal conditions of use.

### Transportation

Shipping Class ORM-D

UN Number 1263

Package Group III

### Toxic Substances Control Act (TSCA) States:

All components of this product are listed in the EPA's Inventory of Chemical Substances as required under the Toxic Substances Control Act (TSCA)