



Material Safety Data Sheet

January 5, 2011

Product Identification: NISSEN LOW CHLORIDE METAL MARKER - WHITE

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)