Material Safety Data Sheet  January 5, 2011

Product Identification  NISSEN METAL MARKER: WHITE MARKER

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.

Ingredients | CAS# | % | Exposure Limits
---|---|---|---
Mineral spirits | 64742-88-7 | 0-1 | 100ppm/8-hrs pel
Urethane resin | proprietary | 66-67 | 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)

For more information visit: [http://www.nissenmarkers.com/](http://www.nissenmarkers.com/)