



**Marine Engineering**

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## Keçe Uçlu Metal Markalama Kalemleri

### **NISSEN Low Chloride Metal Marker Halojensiz Metal Markalama Kalem**

NISSEN Low Chloride Metal Marker, halojenlerden etkilenen ve düşük erime sıcaklığı olan metaller için dizayn edilmiştir. Özellikle yüksek sıcaklıklarda gerçekleştirilen uygulamalarda - kaynak veya kesim gibi - metalin çatlamasına veya zayıflamasına neden olmayacaktır. Pürüzlü, düzgün, ıslak, nemli, kuru, yağlı tüm yüzeylerde kullanılır. Paslanmaz çelik ve Nükleer komponentler için istenen şartlar vardır. Nissen Low Chloride Marker kalemler ABD Enerji Dairesinin RDT F-7-3T Standartına uygun olup içindeki halojen miktarları bağımsız laboratuvarlarca denetlenmektedir. Bağımsız Laboratuvar Kuruluşları'ndan alınmış analiz sertifikaları mevcuttur

**Paket :12 Adet**



# Material Safety Data Sheet January 4, 2010

## Product Identification: NISSEN LOW CHLORIDE METAL MARKER

J.P. Nissen Co. Phone: 215-886-2025  
2544 Fairhill Avenue Fax: 215-886-0707  
P.O. Box 339 Emergency: 1-800-424-9300  
Glenside, PA 19038

**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 66-70 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)