Material Safety Data Sheet

Product Identification: NISSEN SOLID PAINT MARKER - BLACK
NISSEN JUMBO SOLID PAINT MARKER – BLACK

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

Phone: 215-886-2025  
Fax: 215-886-0707  
Emergency: 215-836-2730

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

Hazardous ingredients – Characteristics for Physical, Fire and Explosion data based on Ethylene Glycol Monobutyl Ether Test data.

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS#</th>
<th>%</th>
<th>Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene Glycol</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Monobutyl Ether</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 Butoxy Ethanol</td>
<td>111-76-2</td>
<td>10-54</td>
<td>240mg/m3 (skin)</td>
</tr>
<tr>
<td>Dibutyl Phthalate</td>
<td>84-74-2</td>
<td>2</td>
<td>5mg/m3</td>
</tr>
<tr>
<td>Titanium Dioxide</td>
<td>13463-67-7</td>
<td>0-24</td>
<td>5mg/cu. m</td>
</tr>
<tr>
<td>Cellulose Acetate Butylate</td>
<td>9004-36-8</td>
<td>36.5</td>
<td>N.I.A.</td>
</tr>
<tr>
<td>Ketone Resin</td>
<td>25086-25-3</td>
<td></td>
<td>N.I.A.</td>
</tr>
</tbody>
</table>

Physical Data

Boiling point: 336-343 F  
Vapor density: 4.1  
Volatil %.: 10-54 % by volume  
Specific gravity: 1.03-1.20  
Evaporation rate: Slower than n-butyl acetate

Appearance: Solid paint (semi-soft) with a slight aromatic odor.

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

Fire and Explosion Data

Flashpoint: 142 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

Symptoms of overexposure: 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. Persons with kidney impairment or disease should not work with Dibutyl Phthalate, (overexposure not likely unless ingested). High concentrations and for prolonged overexposure can be damaging to gastro-intestinal system, respiratory system, central nervous system, kidneys, liver, and can cause visual disturbances including corneal damage. (Based on liquid forms of 2 Butoxy Ethanol and Dibutyl phthalate( ingestion).

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

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

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).  
California Proposition 65 (Chemicals known to cause cancer)
Material Safety Data Sheet  
Product Identification: NISSEN SOLID PAINT MARKER – RED  
NISSEN JUMBO SOLID PAINT MARKER – RED

J.P. Nissen Co.  
2544 Fairhill Avenue  
P.O. Box 339  
Glenside, PA 19038  
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Fax: 215-886-0707  
Emergency: 215-836-2730

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

Hazardous ingredients - Characteristics for Physical, Fire and Explosion data based on Ethylene Glycol Monobutyl Ether Test data.

Ingredients | CAS# | % | Exposure Limits  
--- | --- | --- | ---  
Ethylene Glycol Monobutyl Ether | | |  
2 Butoxy Ethanol | 111-76-2 | 10-54 | 240mg./m3 (skin)  
Dibutyl Phthalate | 84-74-2 | 2 | 5mg/m3  
Titanium Dioxide | 13463-67-7 | 0-24 | 5mg./Cu.M  
Pig Red | CI 15865-4 | 0-3 | N.I.A.  
Cellulose Acetate Butyrate | 9004-36-8 | 36.5 | N.I.A.  
Ketone Resin | 25086-25-3 | 36.5 | N.I.A.

Physical Data  
Boiling point: 336-343 F  
Vapor density: 4.1  
Volatility %: 10-54 % by volume  
Specific gravity: 1.03-1.20

Evaporation rate: Slower than n-butyl acetate  
Appearance: Solid paint (semi-soft) with a slight aromatic odor.

Fire and Explosion Data  
Flashpoint: 142 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  
Symptoms of overexposure: 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. Persons with kidney impairment or disease should not work with Dibutyl Phthalate, (overexposure not likely unless ingested). High concentrations and/or prolonged overexposure can be damaging to gastro-intestinal system, respiratory system, central nervous system, kidneys, liver, and can cause visual disturbances including corneal damage. (Based on liquid farms of 2 Butoxy Ethanol and Dibutyl phthalate( ingestion)

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  

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

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)

California Proposition 65 (Chemicals known to cause cancer)
Material Safety Data Sheet

January 2005

Product Identification: NISSEN SOLID PAINT MARKER - WHITE
NISSEN JUMBO SOLID PAINT MARKER – WHITE

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Fax: 215-886-0707
Emergency: 215-836-2730

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

Hazardous ingredients – Characteristics for Physical , Fire and Explosion data based on Ethylene Glycol Monobutyl Ether Test data.

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<td>5mg./cu. m</td>
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<td>Titanium Dioxide</td>
<td>9004-36-8</td>
<td>36.5</td>
<td>N.I.A.</td>
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<tr>
<td>Cellulose Acetate Butyrate</td>
<td>25086-25-3</td>
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<td>N.I.A.</td>
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Physical Data

Boiling point: 336-343 F
Vapor density: 4.1
Volatilie %: 10-54 % by volume
Specific gravity: 1.03-1.20
Evaporation rate: Slower than n-butyl acetate
Appearance: Solid paint (semi-soft) with a slight aromatic odor.

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

Fire and Explosion Data

Flashpoint: 142 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

Symptoms of overexposure: 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. Persons with kidney impairment or disease should not work with Dibutyl Phthalate, (overexposure not likely unless ingested). High concentrations and /or prolonged overexposure can be damaging to gastro-intestinal system, respiratory system, central nervous system, kidneys, liver, and can cause visual disturbances including corneal damage. (Based on liquid forms of 2 Butoxy Ethanol and Dibutyl phthalate[ ingestion] .
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

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

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)
California Proposition 65 (Chemicals known to cause cancer)
Material Safety Data Sheet

Product Identification: NISSEN SOLID PAINT MARKER - YELLOW
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HMIS Ratings: Health 1 Flammability 2 Reactivity 1
NFPA Ratings: Health 1 Flammability 2 Reactivity 0

Hazardous ingredients – Characteristics for Physical, Fire and Explosion data based on Ethylene Glycol Monobutyl Ether Test data.

Ingredients | CAS# | % | Exposure Limits
---|---|---|---
Ethylene Glycol Monobutyl Ether | | | 240mg./m3 (skin)
2 Butoxy Ethanol | 111-76-2 | 10-54 | 5 mg./m3
Dibutyl Phthalate | 84-74-2 | 2 | 5 mg./cu.m
Titanium Dioxide | 13463-67-7 | 0-24 | N.I.A.
Pig Yellow CI 83 | 9004-36-8 | 36.5 | N.I.A.
Cellulose Acetate Butylate | 9004-36-8 | 36.5 | N.I.A.
Ketone Resin | 25086-25-3 | 36.5 | N.I.A.

Physical Data
Boiling point: 336-343 F
Vapor density: 4.1
Volatile %: 10-54 % by volume
Specific gravity: 1.03-1.20
Evaporation rate: Slower than n-butyl acetate

Appearance: Solid paint (semi-soft) with a slight aromatic odor.

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

Fire and Explosion Data
Flashpoint: 142 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
Symptoms of overexposure: 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. Persons with kidney impairment or disease should not work with Dibutyl Phthalate, (overexposure not likely unless ingested). High concentrations and/or prolonged overexposure can be damaging to gastro-intestinal system, respiratory system, central nervous system, kidneys, liver, and can cause visual disturbances including corneal damage. (Based on liquid forms of 2 Butoxy Ethanol and Dibutyl phthalate ingestion). 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
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

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)
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