

# Nissen by Markal Solid Barrel Metal Marker - White, Yellow, Red, Black, Blue, Green

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations, Canada Hazardous Products Regulations (HPR) / Règlement sur les produits dangereux (RPD)

Date of issue: 11/04/2017

Revision date: 04/12/2019

Supersedes: 02/25/2019

Version: 2.1

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
Trade name : Nissen by Markal Solid Barrel Metal Marker - White, Yellow, Red, Black, Blue, Green

#### 1.2. Recommended use and restrictions on use

Use of the substance/mixture : Marking.  
Restrictions on use : No additional information available

#### 1.3. Supplier

LA-CO Industries, Inc.  
1201 Pratt Boulevard  
Elk Grove Village, IL. 60007-5746  
Phone: (847) 956-7600  
Fax: (847) 956-9885  
E-mail: [customer\\_service@laco.com](mailto:customer_service@laco.com)



#### 1.4. Emergency telephone number

Emergency number : 24-hour emergency: CHEMTREC- U.S. : 1-800-424-9300 International: +1-703-527-3887;  
全国应急中心 0532 8388 9090

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS-US classification

Flam. Liq. 3 H226 Flammable liquid and vapour.  
STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

Full text of hazard classes and H-statements : see section 16

#### 2.2. GHS Label elements, including precautionary statements

##### GHS US labelling

Hazard pictograms (GHS US) :



Signal word (GHS US) : Warning

Hazard statements (GHS US) : H226 - Flammable liquid and vapour.  
H373 - May cause damage to organs through prolonged or repeated exposure.

Precautionary statements (GHS US) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P233 - Keep container tightly closed.  
P240 - Ground/bond container and receiving equipment  
P241 - Use explosion-proof electrical/ventilating/lighting equipment.  
P242 - Use only non-sparking tools.  
P243 - Take precautionary measures against static discharge.  
P260 - Do not breathe vapours.  
P280 - Wear protective gloves.  
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower  
P314 - Get medical advice/attention if you feel unwell.  
P370+P378 - In case of fire: Use carbon dioxide (CO<sub>2</sub>), dry extinguishing powder, foam, Water fog to extinguish.  
P403+P235 - Store in a well-ventilated place. Keep cool.  
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

#### 2.3. Other hazards which do not result in classification

No additional information available

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### 2.4. Unknown acute toxicity (GHS US)

Not applicable

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	GHS-US classification
Titanium dioxide	(CAS-No.) 13463-67-7	20 - 30	Carc. 2, H351
Kaolin	(CAS-No.) 1332-58-7	25	Not classified
Solvent naphtha (petroleum), light arom., Low boiling point naphtha - unspecified (benzene <0.1%)	(CAS-No.) 64742-95-6	15 - 25	Asp. Tox. 1, H304
Carbon black	(CAS-No.) 1333-86-4	3 - 7	Carc. 2, H351
Xylene	(CAS-No.) 1330-20-7	3 - 7	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304
1,2,4-trimethylbenzene	(CAS-No.) 95-63-6	0.5 - 1.5	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Aquatic Chronic 2, H411

\*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

Full text of hazard classes and H-statements : see section 16

## SECTION 4: First-aid measures

### 4.1. Description of first aid measures

First-aid measures general	: IF exposed or concerned: Get medical advice/attention.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell.
First-aid measures after skin contact	: Rinse skin with water/shower. Take off immediately all contaminated clothing. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects	: May cause damage to organs through prolonged or repeated exposure.
Symptoms/effects after inhalation	: None under normal use.
Symptoms/effects after skin contact	: None under normal use.
Symptoms/effects after eye contact	: None under normal use.
Symptoms/effects after ingestion	: None under normal use.

### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

### 5.2. Specific hazards arising from the chemical

Fire hazard	: Flammable liquid and vapour.
Explosion hazard	: Flammable vapours heavier than air/can accumulate.
Reactivity	: No dangerous reactions known.

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### 5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Wear fire/flame resistant/retardant clothing. Positive pressure self-contained breathing apparatus (SCBA).

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Emergency procedures : Do not breathe vapours. Avoid contact with skin, eyes and clothing. Eliminate ignition sources.

#### 6.1.2. For emergency responders

Protective equipment : Wear suitable protective clothing and gloves. For further information refer to section 8: "Exposure controls/personal protection".

### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material.

Other information : Dispose in a safe manner in accordance with local/national regulations.

### 6.4. Reference to other sections

Section 13: disposal information.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use only outdoors or in a well-ventilated area. Do not get in eyes, on skin, or on clothing.

Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash your hands immediately after handling this product, and once again before leaving the workplace.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool. Keep container tightly closed.

Incompatible products : Strong oxidizers.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

1,2,4-trimethylbenzene (95-63-6)		
ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	123 mg/m <sup>3</sup>
ACGIH	ACGIH TWA (ppm)	25 ppm
NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	125 mg/m <sup>3</sup>
NIOSH	NIOSH REL (TWA) (ppm)	25 ppm
Xylene (1330-20-7)		
ACGIH	Local name	Xylene, mixed isomers (Dimethylbenzene)
ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	434 mg/m <sup>3</sup>
ACGIH	ACGIH TWA (ppm)	100 ppm
ACGIH	ACGIH STEL (mg/m <sup>3</sup> )	651 mg/m <sup>3</sup>
ACGIH	ACGIH STEL (ppm)	150 ppm
ACGIH	Remark (ACGIH)	TLV® Basis: URT & eye irr; CNS impair. Notations: A4 (Not classifiable as a Human Carcinogen); BEI
ACGIH	Regulatory reference	ACGIH 2019
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	435 mg/m <sup>3</sup>

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<b>Xylene (1330-20-7)</b>		
OSHA	OSHA PEL (TWA) (ppm)	100 ppm
OSHA	Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	435 mg/m <sup>3</sup>
NIOSH	NIOSH REL (TWA) (ppm)	100 ppm
NIOSH	NIOSH REL (STEL) (mg/m <sup>3</sup> )	655 mg/m <sup>3</sup>
NIOSH	NIOSH REL (STEL) (ppm)	150 ppm
<b>Carbon black (1333-86-4)</b>		
ACGIH	Local name	Carbon black
ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
ACGIH	Remark (ACGIH)	Bronchitis
ACGIH	Regulatory reference	ACGIH 2019
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	3.5 mg/m <sup>3</sup>
OSHA	Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	3.5 mg/m <sup>3</sup>
NIOSH	NIOSH REL (STEL) (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup>
<b>Solvent naphtha (petroleum), light arom., Low boiling point naphtha - unspecified (benzene &lt;0.1%) (64742-95-6)</b>		
Not applicable		
<b>Kaolin (1332-58-7)</b>		
ACGIH	Local name	Kaolin
ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
ACGIH	Remark (ACGIH)	Pneumoconiosis
ACGIH	Regulatory reference	ACGIH 2019
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	15 mg/m <sup>3</sup> (total dust) 5 mg/m <sup>3</sup> (respirable dust)
OSHA	Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (total dust) 5 mg/m <sup>3</sup> (respirable dust)
<b>Titanium dioxide (13463-67-7)</b>		
ACGIH	Local name	Titanium dioxide
ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
ACGIH	Remark (ACGIH)	TLV® Basis: LRT irr. Notations: A4 (Not classifiable as a Human Carcinogen)
ACGIH	Regulatory reference	ACGIH 2019
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	15 mg/m <sup>3</sup>
OSHA	Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1

### 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.  
Environmental exposure controls : Avoid release to the environment.

### 8.3. Individual protection measures/Personal protective equipment

#### Hand protection:

Protective gloves. (PVC, neoprene, nitrile rubber). Gloves must be replaced after each use and whenever signs of wear or perforation appear.  
EN374

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### Eye protection:

Eye protection should only be necessary where liquid could be splashed or sprayed.

### Skin and body protection:

Wear suitable protective clothing

### Respiratory protection:

No respiratory protection needed under normal use conditions

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Solid marker containing liquid colored paint.
Colour	: Various
Odour	: aromatic hydrocarbons
Odour threshold	: No data available
pH	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: 159 - 170 °C
Flash point	: 42 °C
Relative evaporation rate (butylacetate=1)	: No data available
Flammability (solid, gas)	: Not applicable.
Vapour pressure	: No data available
Relative vapour density at 20 °C	: > 1
Relative density	: > 1
Solubility	: No data available
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive limits	: Lower explosive limit (LEL): 1.9 vol % Upper explosive limit (UEL): 12.3 vol %
Explosive properties	: No data available
Oxidising properties	: No data available

### 9.2. Other information

VOC content : 564 g/l

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No dangerous reactions known.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

### 10.5. Incompatible materials

Strong oxidizers.

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### 10.6. Hazardous decomposition products

None under normal use.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

<b>1,2,4-trimethylbenzene (95-63-6)</b>	
LD50 oral rat	3415 mg/kg
LD50 dermal rat	3440 mg/kg
LC50 inhalation rat (ppm)	954 ppm
ATE US (oral)	3415 mg/kg bodyweight
ATE US (dermal)	3440 mg/kg bodyweight
ATE US (dust,mist)	1.5 mg/l/4h

<b>Xylene (1330-20-7)</b>	
LD50 oral rat	4300 mg/kg
LD50 dermal rat	1100 mg/kg
LC50 inhalation rat (ppm)	6247 ppm/4h
ATE US (oral)	4300 mg/kg bodyweight
ATE US (dermal)	1100 mg/kg bodyweight
ATE US (gases)	6247 ppmv/4h
ATE US (vapours)	47635 mg/l/4h
ATE US (dust,mist)	1.5 mg/l/4h

<b>Carbon black (1333-86-4)</b>	
LD50 oral rat	> 8000 mg/kg
LC50 inhalation rat (mg/l)	> 4.6 mg/m <sup>3</sup> 4 h

<b>Solvent naphtha (petroleum), light arom., Low boiling point naphtha - unspecified (benzene &lt;0.1%) (64742-95-6)</b>	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 5610 mg/l/4h

<b>Titanium dioxide (13463-67-7)</b>	
LD50 oral rat	> 5000 mg/kg
LC50 inhalation rat (mg/l)	> 6.82 mg/l/4h

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Not classified

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified.

<b>Carbon black (1333-86-4)</b>	
IARC group	2B - Possibly carcinogenic to humans, Inhalation of dust

<b>Titanium dioxide (13463-67-7)</b>	
NOAEL (chronic, oral, animal/male, 2 years)	5 mg/kg bodyweight rat
Additional information	Carcinogen, cat 1A or 1B Inhalation of dust
IARC group	2B - Possibly carcinogenic to humans

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

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<b>Xylene (1330-20-7)</b>	
STOT-single exposure	May cause respiratory irritation.

STOT-repeated exposure : May cause damage to organs through prolonged or repeated exposure.

<b>Xylene (1330-20-7)</b>	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard : Not classified  
Viscosity, kinematic : No data available  
Likely routes of exposure : Dermal. Inhalation.  
Symptoms/effects : May cause damage to organs through prolonged or repeated exposure.  
Symptoms/effects after inhalation : None under normal use.  
Symptoms/effects after skin contact : None under normal use.  
Symptoms/effects after eye contact : None under normal use.  
Symptoms/effects after ingestion : None under normal use.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

<b>1,2,4-trimethylbenzene (95-63-6)</b>	
LC50 fish 1	7.72 mg/l
LC50 other aquatic organisms 1	3.6 mg/l
EC50 other aquatic organisms 1	2.356 mg/l

<b>Solvent naphtha (petroleum), light arom., Low boiling point naphtha - unspecified (benzene &lt;0.1%) (64742-95-6)</b>	
LC50 fish 1	8.2 mg/l
EC50 Daphnia 1	4.5 mg/l
EC50 other aquatic organisms 1	3.7 mg/l
NOEC (acute)	0.5 mg/l

<b>Kaolin (1332-58-7)</b>	
LC50 fish 1	> 1000 mg/l 96 h
EC50 Daphnia 1	> 1000 mg/l 48 h

### 12.2. Persistence and degradability

<b>Nissen by Markal Solid Barrel Metal Marker - White, Yellow, Red, Black, Blue, Green</b>	
Persistence and degradability	Not established.

<b>Carbon black (1333-86-4)</b>	
Persistence and degradability	Not readily biodegradable.

<b>Solvent naphtha (petroleum), light arom., Low boiling point naphtha - unspecified (benzene &lt;0.1%) (64742-95-6)</b>	
Persistence and degradability	Not established.

<b>Kaolin (1332-58-7)</b>	
Persistence and degradability	Not readily biodegradable.

### 12.3. Bioaccumulative potential

<b>Nissen by Markal Solid Barrel Metal Marker - White, Yellow, Red, Black, Blue, Green</b>	
Bioaccumulative potential	Not established.

<b>Solvent naphtha (petroleum), light arom., Low boiling point naphtha - unspecified (benzene &lt;0.1%) (64742-95-6)</b>	
Bioaccumulative potential	Not established.

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### 12.4. Mobility in soil

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Ecology - soil	No additional information available.
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### 12.5. Other adverse effects

Other adverse effects : None known.  
Effect on global warming : None known

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Waste treatment methods : Dispose in a safe manner in accordance with local/national regulations.  
Additional information : Flammable vapours may accumulate in the container.

## SECTION 14: Transport information

### Department of Transportation (DOT)

In accordance with DOT

Transport document description : UN1263 Paint, 3, III  
UN-No.(DOT) : UN1263  
Proper Shipping Name (DOT) : Paint  
Transport hazard class(es) (DOT) : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120  
Packing group (DOT) : III - Minor Danger  
Hazard labels (DOT) : 3 - Flammable liquid



Other information : No supplementary information available.

### Transportation of Dangerous Goods

Transport document description : UN 1263 Paint, 3, III  
UN-No. (TDG) : UN 1263  
Proper Shipping Name (Transportation of Dangerous Goods) : Paint  
TDG Primary Hazard Classes : 3 - Class 3 - Flammable Liquids  
Packing group : III - Minor Danger

### Transport by sea

Transport document description (IMDG) : UN 1263 PAINT, 3, III  
UN-No. (IMDG) : 1263  
Proper Shipping Name (IMDG) : PAINT  
Class (IMDG) : 3 - Flammable liquids  
Packing group (IMDG) : III - substances presenting low danger  
Limited quantities (IMDG) : 5 L

### Air transport

Transport document description (IATA) : UN 1263 PAINT, 3, III  
UN-No. (IATA) : 1263  
Proper Shipping Name (IATA) : PAINT  
Class (IATA) : 3 - Flammable Liquids



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Packing group (IATA)

: III - Minor Danger

### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

1,2,4-trimethylbenzene	CAS-No. 95-63-6	0.5 - 1.5%
Xylene	CAS-No. 1330-20-7	3 - 7%

#### 15.2. International regulations

##### CANADA

###### 1,2,4-trimethylbenzene (95-63-6)

Listed on the Canadian DSL (Domestic Substances List) inventory.

###### Xylene (1330-20-7)

Listed on the Canadian DSL (Domestic Substances List) inventory.

###### Carbon black (1333-86-4)

Listed on the Canadian DSL (Domestic Substances List) inventory.

###### Solvent naphtha (petroleum), light arom., Low boiling point naphtha - unspecified (benzene <0.1%) (64742-95-6)

Listed on the Canadian DSL (Domestic Substances List) inventory.

###### Kaolin (1332-58-7)

Listed on the Canadian DSL (Domestic Substances List) inventory.

###### Titanium dioxide (13463-67-7)

Listed on the Canadian DSL (Domestic Substances List) inventory.

##### EU-Regulations

###### 1,2,4-trimethylbenzene (95-63-6)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

###### Xylene (1330-20-7)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

###### Carbon black (1333-86-4)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

###### Solvent naphtha (petroleum), light arom., Low boiling point naphtha - unspecified (benzene <0.1%) (64742-95-6)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

###### Kaolin (1332-58-7)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

###### Titanium dioxide (13463-67-7)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

##### National regulations

###### 1,2,4-trimethylbenzene (95-63-6)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory  
Listed on KECI (Korean Existing Chemicals Inventory)  
Listed on Taiwan National Chemical Inventory  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Listed on the AICS (Australian Inventory of Chemical Substances)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on the Chinese Catalog of Hazardous Chemicals.

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### Xylene (1330-20-7)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
 Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory  
 Listed on KECI (Korean Existing Chemicals Inventory)  
 Listed on Taiwan National Chemical Inventory  
 Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
 Listed on the AICS (Australian Inventory of Chemical Substances)  
 Listed on NZIoC (New Zealand Inventory of Chemicals)  
 Listed on the Chinese Catalog of Hazardous Chemicals.

### Carbon black (1333-86-4)

Listed on IARC (International Agency for Research on Cancer)  
 Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
 Listed on NZIoC (New Zealand Inventory of Chemicals)  
 Listed on the AICS (Australian Inventory of Chemical Substances)  
 Listed on Taiwan National Chemical Inventory  
 Listed on the Korean ECL (Existing Chemicals List)  
 Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory  
 Listed on the Inventory of Existing Chemical Substances Produced or Imported in China (IECSC).  
 Listed on the Japanese ISHL (Industrial Safety and Health Law)

### Solvent naphtha (petroleum), light arom., Low boiling point naphtha - unspecified (benzene <0.1%) (64742-95-6)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
 Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory  
 Listed on KECI (Korean Existing Chemicals Inventory)  
 Listed on Taiwan National Chemical Inventory  
 Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
 Listed on the AICS (Australian Inventory of Chemical Substances)  
 Listed on NZIoC (New Zealand Inventory of Chemicals)

### Kaolin (1332-58-7)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
 Listed on NZIoC (New Zealand Inventory of Chemicals)  
 Listed on the AICS (Australian Inventory of Chemical Substances)  
 Listed on Taiwan National Chemical Inventory  
 Listed on the Inventory of Existing Chemical Substances Produced or Imported in China (IECSC).  
 Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory  
 Listed on the Korean ECL (Existing Chemicals List)

### Titanium dioxide (13463-67-7)

Listed on IARC (International Agency for Research on Cancer)  
 Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
 Listed on KECI (Korean Existing Chemicals Inventory)  
 Listed on NZIoC (New Zealand Inventory of Chemicals)  
 Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
 Listed on Taiwan National Chemical Inventory  
 Listed on the AICS (Australian Inventory of Chemical Substances)  
 Listed on the TCSI (Taiwan Chemical Substance Inventory)  
 Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory  
 Listed on the Japanese ISHL (Industrial Safety and Health Law)

## 15.3. US State regulations

### Nissen by Markal Solid Barrel Metal Marker - White, Yellow, Red, Black, Blue, Green

State or local regulations	The titanium dioxide in this product is bound and is not respirable. The Carbon black in this product is bound and is not respirable. California Prop. 65 warnings are not required.
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**WARNING:** This product can expose you to ethylbenzene, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

Component	Carcinogenicity	Developmental toxicity	Reproductive toxicity male	Reproductive toxicity female	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
Carbon black(1333-86-4)	X					

# Nissen by Markal Solid Barrel Metal Marker - White, Yellow, Red, Black, Blue, Green

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations, Canada Hazardous Products Regulations (HPR) / Règlement sur les produits dangereux (RPD)

Component	Carcinogenicity	Developmental toxicity	Reproductive toxicity male	Reproductive toxicity female	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
Titanium dioxide(13463-67-7)	X					
ethylbenzene(100-41-4)	X				54 µg/day (inhalation); 41 µg/day (oral)	

Component	State or local regulations
1,2,4-trimethylbenzene(95-63-6)	U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances
Carbon black(1333-86-4)	U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations; U.S. - New Jersey - Right to Know Hazardous Substance List
Kaolin(1332-58-7)	U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations; U.S. - New Jersey - Right to Know Hazardous Substance List
Titanium dioxide(13463-67-7)	U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List

### SECTION 16: Other information

Revision date : 04/12/2019

Data sources : ACGIH (American Conference of Government Industrial Hygienists). Chemical Inspection & Regulation Service; accessed at: [http://www.cirs-reach.com/Inventory/Global\\_Chemical\\_Inventories.html](http://www.cirs-reach.com/Inventory/Global_Chemical_Inventories.html). Component Supplier SDSs. European Chemicals Agency (ECHA) C&L Inventory database. Accessed at <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>. European Chemicals Agency (ECHA) Registered Substances list. Internal Company test data. Krister Forsberg and S.Z. Mansdorf, "Quick Selection Guide to Chemical Protective Clothing", Fifth Edition. National Fire Protection Association. Fire Protection Guide to Hazardous Materials; 10th edition. OSHA 29CFR 1910.1200 Hazard Communication Standard. TSCA Chemical Substance Inventory. Accessed at <http://www.epa.gov/oppt/existingchemicals/pubs/tscainventory/howto.html>.

#### Full text of H-statements:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Asp. Tox. 1	Aspiration hazard, Category 1
Carc. 2	Carcinogenicity, Category 2
Eye Irrit. 2A	Serious eye damage/eye irritation, Category 2A
Flam. Liq. 3	Flammable liquids, Category 3
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.

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H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.

### Abbreviations and acronyms:

	ACGIH (American Conference of Government Industrial Hygienists)
	ATE: Acute Toxicity Estimate
	CAS (Chemical Abstracts Service) number
	CLP: Classification, Labelling, Packaging.
	EC50: Environmental Concentration associated with a response by 50% of the test population.
	GHS: Globally Harmonized System (of Classification and Labeling of Chemicals).
	LD50: Lethal Dose for 50% of the test population
	STEL: Short Term Exposure Limits
	TSCA: Toxic Substances Control Act
	TWA: Time Weighted Average

### NFPA health hazard

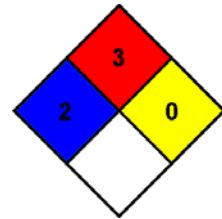
: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.

### NFPA fire hazard

: 3 - Liquids and solids (including finely divided suspended solids) that can be ignited under almost all ambient temperature conditions.

### NFPA reactivity

: 0 - Normally stable, even under fire exposure conditions, and not reactive with water.



### Indication of changes:

Regulatory information.

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*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*