

**1. Identification of the substance/preparation and of the company/undertaking**


**Identification of the substance or preparation**

**Product name:** MS Tag marker zwart

**Product uses** Weather-resistant marker for polyurethane tags

**Company/undertaking identification:** Schippers Europe B.V.  
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**2. Hazards identification**

Protective Clothing	NFPA Rating (USA)	EC Classification	WHMIS (Canada)	Transportation
Not Required for Normal Use		Not Classified as Dangerous	Not Controlled	Excepted Quantity [Class 3 Flammable liquid]

**Emergency Overview:**

The ink inside the marker contains components which are considered hazardous by inhalation of vapors and skin contact. Exposure to hazardous or dangerous substances is not expected when handling this product for its intended use.

**Appearance, Color and Odor:**

Marker containing less than 10 mL of black ink. Organic solvent odor.  
USA: This product is not a hazardous material as defined by 29 CFR1910.1200, OSHA Hazard Communication Evaluation. This product meets the definition of an "article".  
Canada: This is not a controlled product under WHMIS. This product meets the definition of a "manufactured article" and is not subject to the regulations of the Hazardous Products Act.  
European Communities (EC): This product is not classified as dangerous according to Directive 1999/45/EC and its amendments.

**Potential Health Effects:**

**ACUTE (short term):**

**Relevant Route(s) of Exposure:**

Skin contact.

**Inhalation:**

Exposure to hazardous substances by inhalation is not expected with normal use of the marker.

**Ingestion:**

Not an expected route of occupational exposure. Acute oral toxicity of the component substances is low.

**Skin:**

Normal use of marker will not result in harmful effects. The ink may cause irritation when in contact with the skin. Some components of the ink may be absorbed through the skin.

**Eye:**

Not an expected route of occupational exposure. Liquid and concentrated vapors can irritate the eyes.

**CHRONIC (long term):**

see Section 11 for additional toxicological data

Long-term health effects are not expected with normal use of the marker.

Prolonged or repeated contact with of the ink to skin may result in defatting and drying of skin and may result in dermatitis.

**Medical Conditions Aggravated by Exposure:**

Preexisting skin disorders may be aggravated by repeated exposure to the liquid in the marker.

**Interactions With Other Chemicals:**

Not available

**Potential Environmental Effects:**

Not available

### 3. Composition/information on ingredients

Chemical Name	CAS No.	Wt.%	EC #	Symbol	Risk Phrases
Methyl Isobutyl ketone (MIBK)	108-10-1	10 – 37	203-550-1	F; Xn; Xi	R11; R20; R36/37; R66
Xylene	1330-20-7	10 - 30	215-535-7	Xn	R10; R20/21; R38
2-phenoxyethanol	122-99-6	10 – 15	204-589-7	Xn; Xi	R22; R36
n-Butyl Alcohol	71-36-3	0 - 15	200-751-6	Xn	R10; R22; R37/38; R41; R67
Vinyl acetate Vinyl chloride copolymer	9003-22-9	3-7	Polymer	Not applicable	Not applicable
Ethylbenzene	100-41-4	3 - 7	202-849-4	F; Xn	R11; R20
Amines, C12_14-tert-alkyl, compds. with 1-[[5-(1,1-dimethylpropyl)-2-hydroxy-3-nitrophenyl]azo]-2-naphthalenol 1-[[2-hydroxy-4(or 5)-nitrophenyl]azo]-2-naphthalenol chromium complexes	117527-94-3	3-7	403-720-7	N	R51/53
Carbon Black	1333-86-4	1 - 3	215-609-9	Not applicable	Not applicable
2-Amino-2-methyl-1-propanol	124-68-5	0.5 – 1.5	204-709-8	Xi	R36/38; R52/53

See Section 16 for the full text of the R-phrases above.

### 4. First aid measures

**Inhalation:**

If symptoms are experienced remove source of contamination or move victim to fresh air and obtain medical advice.

**Eye Contact:**

No effects expected. If irritation occurs, flush contaminated eye(s) with lukewarm, gently flowing water for 5 minutes. If irritation persists, obtain medical advice.

**Skin Contact:**

No health effects expected. If irritation does occur, flush with lukewarm, gently flowing water for 5 minutes. If irritation persists, obtain medical advice.

**Ingestion:**

If irritation or discomfort occurs, obtain medical advice immediately.

**5. Fire-fighting measures****Flammable Properties:**

Ink contained within the markers is flammable.

**Suitable extinguishing Media:**

For small fires, use water spray, dry chemical, carbon dioxide, or alcohol-resistant foam. For large fires, use carbon dioxide, dry chemical powder, alcohol-resistant foam or polymer foam. Firefighting foams are the extinguishing agent of choice for most flammable liquid fires. Use water spray to cool fire-exposed containers.

**Unsuitable extinguishing Media:**

Not available

**Explosion Data:**

Sensitivity to Mechanical Impact:

Not applicable

**Sensitivity to Static Discharge:**

Not applicable

**Specific Hazards arising from the Chemical:**

If involved in a fire, combustion may produce toxic and irritating fumes and gases.

**Protective Equipment and precautions for firefighters:**

Self-contained breathing apparatus and protective clothing should be worn. Remove all unprotected personnel.

**NFPA****Health:**

0

**Flammability:**

1

**Instability:**

0

**6. Accidental release measures****Personal Precautions:**

If large volumes of liquid ink are released, wear protective gloves, goggles and clothing. Ventilate the area. Monitor the workplace air for harmful concentrations of vapors and take appropriate precautions if concentrations in air exceed workplace exposure limits.

**Environmental Precautions:**

Prevent the product from entering sewers or waterways.

**Methods for Containment:**

If large volumes of liquid ink are released, stop the leak if it is safe to do so. Contain spilled ink with earth, sand, or absorbent material which does not react with spilled material.

**Methods for Clean-up:**

Clean up spills immediately. Shut off or extinguish all sources of ignition. Immediately soak spilled material with water. Soak up spill with absorbent material which does not react with spilled chemical. Put material in suitable, covered, labeled containers. Contaminated absorbent material may pose the same hazards as the spilled product. Dispose of any contaminated, unusable product as described in Section 13 of this SDS.

## 7. Handling and storage

**Handling:**

Avoid breathing vapors. Do not use near sources of extreme heat. Keep out of reach of children.

**Storage:**

Store in a cool, dry area, out of direct sunlight and away from heat, flames and ignition sources. Keep markers closed when not in use.

## 8. Exposure controls/Personal protection

**Exposure Guidelines**

Measurable airborne concentrations of the component substances, listed in Section 3, are not expected when the markers are used for their intended purpose. Consult local authorities for acceptable exposure limits.  
Exposure Controls

**Engineering Controls:**

Not required for normal use.

**Personal Protection:****Eye/Face Protection:**

Not required for normal use. In case of accidental release of large quantities of ink, wear goggles.

**Skin Protection:**

Not required for normal use. In case of accidental release of large quantities of ink, wear gloves.

**Respiratory Protection:**

Not required for normal use.

**General Hygiene Measures:**

Avoid breathing vapors. Do not ingest. Avoid contact of the ink to skin and eyes. Keep out of reach of children.

## 9. Physical and chemical properties

<b>Physical State:</b>	Solid, containing liquid ink.
<b>Appearance, Color and Odor:</b>	Cylindrical marker; black odor of organic solvent.
<b>Odor Threshold:</b>	Not available
<b>pH:</b>	Not applicable
<b>Specific Gravity:</b>	< 1.0
<b>Partition coefficient:</b>	Not available
<b>Solubility:</b>	Not applicable
<b>Viscosity:</b>	Not applicable
<b>Decomposition Temperature:</b>	Not available
<b>Flash Point &amp; method:</b>	16°C (61°F) CC ASTM D56 for MIBK

Autoignition Temperature:	Not available
Flammability Limits in Air:	Not available
Vapor Pressure:	Not applicable
Vapor Density:	Not applicable
Evaporation Rate:	Not applicable
Boiling Point/Range:	138.3°C (281°F)
Melting Point:	Not available
VOC Content:	85% (w/w) for liquid ink

## 10. Stability and reactivity

### Chemical Stability:

Stable at normal room temperature.

### Conditions to Avoid:

Do not use in conditions of extreme heat or near open flames.

### Incompatible Materials:

Incompatible with strong oxidizing agents.

### Hazardous Decomposition Products:

Not applicable

### Possibility of Hazardous Reactions:

Not applicable

## 11. Toxicological information

### Acute Toxicity Data

Acute toxicity data is not available for the liquid ink preparations inside the markers. The ink contains substances which are considered toxic and harmful by inhalation and in contact with skin however, exposure to toxic and harmful substances by the user is not expected when the marker is used for its intended purpose.

### Other Toxicity Data

#### Carcinogenicity:

The component Ethylbenzene is listed by IARC (International Agency for Research on Cancer) in Group 2B, possibly carcinogenic to humans, and by ACGIH (American Conference of Governmental Industrial Hygienists) as A3, confirmed animal carcinogen with unknown relevance to humans. Normal use of the markers is not expected to pose the risk of exposure to carcinogenic substances.

#### Irritation:

Normal use of marker will not result in harmful effects. High concentrations of vapors may cause irritation to the eyes. Ink may cause irritation in contact with skin.

#### Corrosivity:

Not applicable

#### Sensitization:

Not applicable

#### Neurological Effects:

Not applicable with normal use of the marker.

#### Genetic Effects:

Not applicable with normal use of the marker.

**Reproductive Effects:**

Not applicable with normal use of the marker.

**Developmental Effects:**

Not applicable with normal use of the marker.

**Target Organ Effects:**

Not applicable with normal use of the marker.

**12. Ecological information****Ecotoxicity:**

Not available

**Persistence/Degradability:**

Not available

**Bioaccumulation/Accumulation:**

Not available

**Mobility:**

Not available

**13. Disposal considerations****Waste Disposal Method:**

Do NOT dump into any sewers, on the ground or into any body of water. Store material for disposal as indicated in Section 7 Handling and Storage.

The conditions of use, storage and disposal of this product are beyond our control and may be beyond our knowledge. For this and other reasons, Schippers Europe BV does not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of this product.

**USA:**

Dispose of in accordance with local, state and federal laws and regulations.

**Canada:**

Dispose of in accordance with local, provincial and federal laws and regulations.

**EC:**

Waste must be disposed of in accordance with relevant EC Directives and national, regional and local environmental control regulations. For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used.

**14. Transport information****U.S. Hazardous Materials Regulation (DOT 49CFR):**

This product conforms to 49 CFR 173.4 for domestic highway or rail transport only.

Conforms to 49 CFR 173.4a Excepted quantity of Class 3 Flammable liquid.

**Canadian Transportation of Dangerous Goods (TDG):**

Dangerous goods in excepted quantity.

**ADR/RID:**

Dangerous goods in excepted quantity.

**IMDG:**

Dangerous goods in excepted quantity.

**ICAO/IATA:**

Dangerous goods in excepted quantity.

**15. Regulatory information****USA****TSCA Status:**

All component substances are listed on the TSCA inventory.

**SARA Title III**

Sec. 302/304:

Sec. 311/312:

Sec. 313:

**CERCLA RQ:**

None

Flammable

Xylenes, Ethylbenzene, Methyl Isobutyl Ketone, n-Butyl Alcohol, Chromium compound

Xylenes 100 lb, Ethylbenzene 1 000 lb, Methyl Isobutyl Ketone 5 000 lb, n-Butyl Alcohol 5 000 lb

**California Prop 65:**

This product contains the following chemicals known to the State of California to cause cancer:

Ethylbenzene, and Carbon Black\*.

\*As sold, this product does not contain Carbon Black as airborne, or unbound particles of respirable size.

**State Right-to-Know Lists :**

Xylene, Ethylbenzene, Carbon black and Methyl isobutyl ketone, can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Minnesota, Massachusetts.

2-Phenoxyethanol can be found on the following state right to know lists: Pennsylvania.

**Canada**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

**WHMIS Classification (for workplace exposures):**

Not controlled. Product meets the definition of a "manufactured article" and is not subject to the regulations of the Hazardous Products Act.

**New Substance Notification Regulations:**

All component substances are listed on Canada's Domestic Substances List (DSL).

**NPRI Substances:**

Xylene (mixed isomers), Ethylbenzene, Methyl Isobutyl Ketone, n-Butyl Alcohol, Chromium compound.

EC Classification for the Substance/Preparation

**European Inventories:**

All component substances are listed in EINECS.

**Symbol:**

This product is not classified as dangerous according to Directive 1999/45/EC and its amendments.

**16. Other information****Full Text of R-phrases appearing in Section 2:**

R10:	Flammable.
R11:	Highly flammable.
R20/21:	Harmful by inhalation and in contact with skin.
R22:	Harmful if swallowed.
R36/37/38:	Irritating to eyes, respiratory system and skin.
R41:	Risk of serious damage to eyes.
R51/53:	Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.
R52/53:	Harmful to aquatic organisms, may cause long term adverse effects in the aquatic environment.
R66:	Repeated exposure may cause skin dryness or cracking.
R67:	Vapors may cause drowsiness and dizziness.

**Manufacturer Disclaimer:**

The information contained herein is based on data available to us and is accurate and reliable to the best of our knowledge and belief. However, Schippers Europe BV makes no representations as to its completeness or accuracy. Information is supplied on condition that persons receiving such information will make their own determination as to its suitability for their purposes prior to use. In no event will Schippers Europe BV be responsible for damages of any nature whatsoever resulting from the use of or reliance upon the information contained herein.