# **SAFETY DATA SHEET**



### PEN-40 and PEN-40IR LabMarker

Product identifier	: PEN-40 and PEN-40IR LabMarker
Other means of identification	: Not available.
Product type	: Liquid.
Identified uses	: Not available.
Supplier's details	: Micronova Manufacturing Inc. 3431 West Lomita Boulevard Torrance, CA 90505 Tel : 310-784-6990 Toll free: 888-816-4276 Fax: 310-784-6980 Web: www.micronova-mfg.com Email address of person responsible for sds: info@micronova-mfg.com
Emergency telephone number (with hours of operation)	: CHEMTREC: +1-703-741-5970 CHEMTREC International: +1(703) 527-3887 (24 hours)

### Section 2. Hazard identification

**Classification of the** 

substance or mixture	
GHS label elements	
Signal word	: No signal word.
Hazard statements	: No known significant effects or critical hazards.
Precautionary statements	
Prevention	: Not applicable.
Response	: Not applicable.
Storage	: Not applicable.
Disposal	: Not applicable.
Other hazards which do not result in classification/ HHNOC/PHNOC	: None known.

: Not classified.

## Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Other means of	: Not available.
identification	

#### **CAS number/other identifiers**

CAS number	: Not applicable.
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### Section 3. Composition/information on ingredients

Product code	Not avallable.		
Ingredient name		% (w/w)	CAS number
Xylene		5 - 10	1330-20-7
2-(Propyloxy)ethanol		5 - 10	2807-30-9
C.I. Solvent Yellow 14		5 - 10	842-07-9
1-[(2-Methylphenyl)azo]-2-naphthol		5 - 10	2646-17-5

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First-aid measures

Description of necessa	ary first aid measures
Eye contact	<ul> <li>Not applicable under normal conditions of use. In case of contact with eyes, rinse immediately with plenty of water. If irritation occurs, get medical attention.</li> </ul>
Inhalation	<ul> <li>Not applicable under normal conditions of use. If inhaled, remove to fresh air. Get medical attention if symptoms occur.</li> </ul>
Skin contact	<ul> <li>Not applicable under normal conditions of use. Rinse skin with water. If irritation occurs, get medical attention.</li> </ul>
Ingestion	: Not applicable under normal conditions of use. Get medical attention if symptoms occur.

#### Most important symptoms/effects, acute and delayed

Potential acute health effe	<u>cts</u>	
Eye contact	1	No known significant effects or critical hazards.
Inhalation	1	No known significant effects or critical hazards.
Skin contact	:	No known significant effects or critical hazards.
Ingestion	:	No known significant effects or critical hazards.
<u>Over-exposure signs/symp</u>	otom	<u>IS</u>
Eye contact	1	No known significant effects or critical hazards.
Inhalation	:	No known significant effects or critical hazards.
Skin contact	:	No known significant effects or critical hazards.
Ingestion	1	No known significant effects or critical hazards.
Indication of immediate mee	dical	attention and special treatment needed, if necessary
Notes to physician	:	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	:	No specific treatment.
Protection of first-aiders	:	No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)



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## Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: In case of fire, use water spray (fog), foam, dry chemical or CO <sub>2</sub> . If individual marker should catch fire, douse with or immerse in plain water.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: Emits acrid smoke and toxic fumes under fire conditions.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides
Special protective actions for fire-fighters	: No special measures are required.
Special protective equipment for fire-fighters	<ul> <li>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</li> </ul>

### Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures			
For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.	
For emergency responders	:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".	
Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).	

#### Methods and materials for containment and cleaning up

Spill	: Broken packages or leaking markers: sweep into closable container to disposal.
	Note: see Section 1 for emergency contact information and Section 13 for waste
	disposal.

## Section 7. Handling and storage

Precautions for safe handling		
Protective measures	÷	Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene	:	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.





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# Section 7. Handling and storage

Conditions for safe storage,	: Store in accordance with local regulations. Store in original container protected from
including any	direct sunlight in a dry, cool and well-ventilated area, away from incompatible
incompatibilities	materials (see Section 10) and food and drink. Keep container tightly closed and
-	sealed until ready for use. Do not store in unlabeled containers. Use appropriate
	containment to avoid environmental contamination.

### Section 8. Exposure controls/personal protection

#### **Control parameters**

#### **Occupational exposure limits**

Ingredient name	Exposure limits
Xylene	<ul> <li>CA Alberta Provincial (Canada, 4/2009).</li> <li>8 hrs OEL: 100 ppm 8 hours.</li> <li>15 min OEL: 651 mg/m<sup>3</sup> 15 minutes.</li> <li>15 min OEL: 150 ppm 15 minutes.</li> <li>8 hrs OEL: 434 mg/m<sup>3</sup> 8 hours.</li> <li>CA British Columbia Provincial (Canada, 5/2015).</li> <li>TWA: 100 ppm 8 hours.</li> <li>STEL: 150 ppm 15 minutes.</li> <li>CA Quebec Provincial (Canada, 1/2014).</li> <li>TWAEV: 100 ppm 8 hours.</li> <li>STEV: 150 ppm 15 minutes.</li> <li>STEV: 150 ppm 15 minutes.</li> <li>STEV: 651 mg/m<sup>3</sup> 15 minutes.</li> <li>STEL: 651 mg/m<sup>3</sup> 15 minutes.</li> <li>STEL: 150 ppm 15 minutes.</li> <li>STEL: 150 ppm 15 minutes.</li> <li>STEL: 150 ppm 15 minutes.</li> <li>STEL: 651 mg/m<sup>3</sup> 15 minutes.</li> <li>STEL: 150 ppm 15 minutes.</li> <li>STEL: 150 ppm 15 minutes.</li> <li>STEL: 150 ppm 15 minutes.</li> <li>TWA: 434 mg/m<sup>3</sup> 8 hours.</li> <li>TWA: 100 ppm 8 hours.</li> <li>TWA: 100 ppm 8 hours.</li> </ul>
2-(Propyloxy)ethanol	<b>CA Ontario Provincial (Canada, 7/2015). Absorbed through skin.</b> TWA: 110 mg/m <sup>3</sup> 8 hours. TWA: 25 ppm 8 hours.

Appropriate engineering controls	:	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Environmental exposure controls	:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

Individual protection measure	<u>s</u>	
Hygiene measures	:	Follow standard laboratory practice.
Eye/face protection	:	Not required under normal conditions of use.
Skin protection		
Hand protection	:	Handle using standard laboratory gloves, appropriate for the overall task being conducted.
Body protection	:	Standard laboratory coat.
Other skin protection	:	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	:	Not required under normal conditions of use.



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### Section 9. Physical and chemical properties

### Appearance

Physical state	:	Liquid. [The product is a marker.]
Color	:	Not available.
Odor	1	Not available.
Odor threshold	:	Not available.
рН	1	Not available.
Melting point	1	Not available.
Boiling point	1	138.33 to 149.44°C (281 to 301°F)
Flash point	1	Closed cup: 27.222 to 48.889°C (81 to 120°F)
Evaporation rate	1	<1 (Butyl acetate = 1)
Flammability (solid, gas)	1	Not available.
Lower and upper explosive (flammable) limits	1	Lower: 1 to 1.26% Upper: 7 to 15.8%
Vapor pressure	:	0.17 to 2.8 kPa (1.3 to 21 mm Hg) [room temperature]
Vapor density	:	>1 [Air = 1]
Relative density	:	0.9
Solubility	:	Partially soluble in the following materials: cold water and hot water.
Partition coefficient: n- octanol/water	1	Not available.
Auto-ignition temperature	:	Not available.
Decomposition temperature	:	Not available.
Viscosity	1	Not available.

### Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: Reactive or incompatible with the following materials: oxidizing materials.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Xylene	LC50 Inhalation Gas.	Rat	5000 ppm	4 hours
	LD50 Oral	Rat	4300 mg/kg	-
2-(Propyloxy)ethanol	LD50 Oral	Rat	3089 mg/kg	-

### Irritation/Corrosion

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### Section 11. Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
Xylene	Eyes - Mild irritant	Rabbit	-	87 mg	-
	Eyes - Severe irritant	Rabbit	-	24 hours 5 mg	-
	Skin - Mild irritant	Rat	-	8 hours 60 µL	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Moderate irritant	Rabbit	-	100 %	-
2-(Propyloxy)ethanol	Eyes - Severe irritant	Rabbit	-	24 hours 750 µg	-
	Eyes - Severe irritant	Rabbit	-	100 mg	-
	Skin - Mild irritant	Guinea pig	-	500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-

#### **Sensitization**

There is no data available.

#### **Mutagenicity**

There is no data available.

#### **Carcinogenicity**

#### **Classification**

Product/ingredient name	OSHA	IARC	NTP	ACGIH	EPA	NIOSH
Xylene	-	3	-	A4	-	-
C.I. Solvent Yellow 14	-	3	-	-	-	-
1-[(2-Methylphenyl)azo]-2-naphthol	-	2B	-	-	-	-

#### **Reproductive toxicity**

There is no data available.

#### **Teratogenicity**

There is no data available.

#### Specific target organ toxicity (single exposure)

There is no data available.

#### Specific target organ toxicity (repeated exposure)

There is no data available.

#### Aspiration hazard

There is no data available.

# Information on the likely routes of exposure

: Dermal contact. Eye contact. Inhalation. Ingestion.

### Potential acute health effects

Eye contact	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.

#### Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.

### Delayed and immediate effects and also chronic effects from short and long term exposure Short term exposure

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## Section 11. Toxicological information

Potential immediate effects	: No known significant effects or critical hazards.
Potential delayed effects	: No known significant effects or critical hazards.
<u>Long term exposure</u>	
Potential immediate effects	: No known significant effects or critical hazards.
Potential delayed effects	: No known significant effects or critical hazards.
Potential chronic health eff	ects
General	: No known significant effects or critical hazards.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.

#### Numerical measures of toxicity

Acute toxicity estimates

There is no data available.

### Section 12. Ecological information

#### **Toxicity**

There is no data available.

#### Persistence and degradability

There is no data available.

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Xylene	3.12	8.1 to 25.9	low
2-(Propyloxy)ethanol	0.673	-	low

#### Mobility in soil

Soil/water partition : Not available. coefficient (Koc)

Other adverse effects

: No known significant effects or critical hazards.

### Section 13. Disposal considerations

Disposal methods	: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its
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### Section 13. Disposal considerations

container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

### Section 14. Transport information

	TDG Classification	IMDG	ΙΑΤΑ
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	No.	No.	No.
Additional information	-	-	-

**AERG** : Not applicable.

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

### Section 15. Regulatory information

### **Canadian lists**

- **Canadian NPRI**
- : The following components are listed: Xylene; C.I. Solvent Yellow 14
- **CEPA Toxic substances Canada inventory**
- : None of the components are listed.
- : Not determined.

### Section 16. Other information

#### Procedure used to derive the classification

Classification	Justification
Not classified.	
History	

Date of issue	: 07/14/2021
Date of previous issue	: 09/15/2016
Version	: 3
Prepared by	: KMK Regulatory Services Inc.



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## Section 16. Other information

Key to abbreviations	: ATE = Acute Toxicity Estimate
	BCF = Bioconcentration Factor
	GHS = Globally Harmonized System of Classification and Labelling of Chemicals
	IATA = International Air Transport Association
	IBC = Intermediate Bulk Container
	IMDG = International Maritime Dangerous Goods
	LogPow = logarithm of the octanol/water partition coefficient
	MARPOL = International Convention for the Prevention of Pollution From Ships,
	1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
	UN = United Nations
	HPR = Hazardous Products Regulations
Notice to reader	

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