SAFETY DATA SHEET

Section 1. Identification

GHS product identifier : Tekmark Indelible Marking Pen

Other means of identification :

Product type : Ink Marker

Product code : #10900 Black, #10901 Red, #10903 Blue

Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Marking on various surfaces

Supplier's details : U-Mark, Inc.
102 Iowa Ave.
Belleville, IL
TEL: 618-235-7500

Emergency telephone number (with hours of operation) : 24-hour Emergency Phone: Infotrac 1-800-535-5053 (USA & Canada)
1-352-323-3500 (International)

Section 2. Hazards identification

OSHA/HCS status : While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

This SDS reflects the health, physical and environmental hazards of the liquid ink contained within the pen/marker. Because of the nature of the finished product i.e. the fact that the ink is held internally within the pen/marker inside a closed (sealed) container, and given that the liquid is present in a small quantity and is released in very small amounts during normal use, the user of the product and/or the reader of this SDS should consider the potential exposure to the ink to be minimal and controlled during the normal use of the product. Refer to relevant sections of the SDS (7 and 13) for additional information on handling and disposal considerations.
To avoid any potential hazard and to minimize the risk of exposure, it is important that the user of the product does NOT open, heat, burn or expose it to a source of intense heat, as this could release the ink.

Classification of the substance or mixture : Not classified.

GHS label elements

Signal word : No signal word.

Hazard statements : No known significant effects or critical hazards.

Precautionary statements

General : P103 - Read label before use.
P102 - Keep out of reach of children.
P101 - If medical advice is needed, have product container or label at hand.

Prevention : Not applicable.

Response : Not applicable.

Storage : Not applicable.

Disposal : Not applicable.

Section 2. Hazards identification

Hazards not otherwise classified : None known.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Other means of identification : Not available.

CAS number/other identifiers

CAS number : Not applicable.

Product code : Not available.

Ingredient name	%	CAS number
Xylene	≥25 - ≤50	1330-20-7
1,2,4-Trimethylbenzene	≥10 - ≤25	95-63-6
Ethylbenzene	≥5 - ≤10	100-41-4
Carbon black, respirable powder	≥5 - ≤10	1333-86-4
Mesitylene	≥3 - ≤5	108-67-8
4-Ethyltoluene	≥1 - ≤3	622-96-8
1,2,3-Trimethylbenzene	≥1 - ≤3	526-73-8
Propylbenzene	≥1 - ≤3	103-65-1
o-Xylene	≥1 - ≤3	95-47-6
2-Ethyltoluene	≥1 - ≤3	611-14-3
Cumene	≥0.3 - ≤1	98-82-8

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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 necessary first aid measures

Under normal conditions of use first aid is not required.

Eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or Poison Control Center immediately.

Inhalation : If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

Skin contact : Wash skin with soap and water. Get medical attention if irritation develops and persists.

Ingestion : IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.

Most important symptoms/effects, acute and delayed

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.

Over-exposure signs/symptoms

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.

Section 4. First aid measures

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

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)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media : None known.

Specific hazards arising from the chemical : Not applicable.

Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide

Special protective actions for fire-fighters : No special measures are required.

Special protective equipment for fire-fighters : No special protection is required.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : Provide adequate ventilation.

For emergency responders : Not applicable.

Environmental precautions : Not applicable.

Methods and materials for containment and cleaning up

Spill : Not applicable.

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 : Workers should wash hands and face before eating, drinking and smoking.

Conditions for safe storage, including any incompatibilities : Store in accordance with local regulations. Store in original container in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink.

Section 8. Exposure controls/personal protection

Control parameters

United States

Occupational exposure limits

Ingredient name	Exposure limits
Xylene	**ACGIH TLV (United States, 3/2015).** TWA: 100 ppm 8 hours. TWA: 434 mg/m³ 8 hours. STEL: 150 ppm 15 minutes. STEL: 651 mg/m³ 15 minutes. **OSHA PEL (United States, 2/2013).** TWA: 100 ppm 8 hours. TWA: 435 mg/m³ 8 hours.
1,2,4-Trimethylbenzene	**ACGIH TLV (United States, 3/2015).** TWA: 25 ppm 8 hours. TWA: 123 mg/m³ 8 hours. **NIOSH REL (United States, 10/2013).** TWA: 25 ppm 10 hours. TWA: 125 mg/m³ 10 hours.
Ethylbenzene	**ACGIH TLV (United States, 3/2015).** TWA: 20 ppm 8 hours. **NIOSH REL (United States, 10/2013).** TWA: 100 ppm 10 hours. TWA: 435 mg/m³ 10 hours. STEL: 125 ppm 15 minutes. STEL: 545 mg/m³ 15 minutes. **OSHA PEL (United States, 2/2013).** TWA: 100 ppm 8 hours. TWA: 435 mg/m³ 8 hours.
Carbon black, respirable powder	**NIOSH REL (United States, 10/2013).** TWA: 3.5 mg/m³ 10 hours. TWA: 0.1 mg of PAHs/cm³ 10 hours. **OSHA PEL (United States, 2/2013).** TWA: 3.5 mg/m³ 8 hours. **ACGIH TLV (United States, 3/2015).** TWA: 3 mg/m³ 8 hours. Form: Inhalable fraction
Mesitylene	**ACGIH TLV (United States, 3/2015).** TWA: 25 ppm 8 hours. TWA: 123 mg/m³ 8 hours. **NIOSH REL (United States, 10/2013).** TWA: 25 ppm 10 hours. TWA: 125 mg/m³ 10 hours.
4-Ethyltoluene	None.
1,2,3-Trimethylbenzene	**ACGIH TLV (United States, 3/2015).** TWA: 25 ppm 8 hours. TWA: 123 mg/m³ 8 hours. **NIOSH REL (United States, 10/2013).** TWA: 25 ppm 10 hours. TWA: 125 mg/m³ 10 hours.
Propylbenzene	None.
o-Xylene	**ACGIH TLV (United States, 3/2015).** TWA: 100 ppm 8 hours. TWA: 434 mg/m³ 8 hours. STEL: 150 ppm 15 minutes. STEL: 651 mg/m³ 15 minutes. **NIOSH REL (United States, 10/2013).** TWA: 100 ppm 10 hours. TWA: 435 mg/m³ 10 hours. STEL: 150 ppm 15 minutes. STEL: 655 mg/m³ 15 minutes. **OSHA PEL (United States, 2/2013).** TWA: 100 ppm 8 hours. TWA: 435 mg/m³ 8 hours.
2-Ethyltoluene	None.
Cumene	**ACGIH TLV (United States, 3/2015).** TWA: 50 ppm 8 hours. **NIOSH REL (United States, 10/2013). Absorbed through skin.** TWA: 50 ppm 10 hours.

Section 8. Exposure controls/personal protection

	TWA: 245 mg/m³ 10 hours. **OSHA PEL (United States, 2/2013). Absorbed through skin.** TWA: 50 ppm 8 hours. TWA: 245 mg/m³ 8 hours.

Canada

Occupational exposure limits

Ingredient name	Exposure limits
Xylene	**CA Alberta Provincial (Canada, 4/2009).** 8 hrs OEL: 100 ppm 8 hours. 15 min OEL: 651 mg/m³ 15 minutes. 15 min OEL: 150 ppm 15 minutes. 8 hrs OEL: 434 mg/m³ 8 hours. **CA British Columbia Provincial (Canada, 5/2015).** TWA: 100 ppm 8 hours. STEL: 150 ppm 15 minutes. **CA Quebec Provincial (Canada, 1/2014).** TWAEV: 100 ppm 8 hours. TWAEV: 434 mg/m³ 8 hours. STEV: 150 ppm 15 minutes. STEV: 651 mg/m³ 15 minutes. **CA Ontario Provincial (Canada, 7/2015).** STEL: 651 mg/m³ 15 minutes. STEL: 150 ppm 15 minutes. TWA: 434 mg/m³ 8 hours. TWA: 100 ppm 8 hours. **CA Saskatchewan Provincial (Canada).** STEL: 150 ppm 15 minutes. TWA: 100 ppm 8 hours.
1,2,4-Trimethylbenzene	**CA Alberta Provincial (Canada, 4/2009).** 8 hrs OEL: 123 mg/m³ 8 hours. 8 hrs OEL: 25 ppm 8 hours. **CA British Columbia Provincial (Canada, 5/2015).** TWA: 25 ppm 8 hours. **CA Quebec Provincial (Canada, 1/2014).** TWAEV: 25 ppm 8 hours. TWAEV: 123 mg/m³ 8 hours. **CA Ontario Provincial (Canada, 7/2015).** TWA: 123 mg/m³ 8 hours. TWA: 25 ppm 8 hours. **CA Saskatchewan Provincial (Canada).** STEL: 30 ppm 15 minutes. TWA: 25 ppm 8 hours.
Ethylbenzene	**CA Alberta Provincial (Canada, 4/2009).** 8 hrs OEL: 100 ppm 8 hours. 8 hrs OEL: 434 mg/m³ 8 hours. 15 min OEL: 543 mg/m³ 15 minutes. 15 min OEL: 125 ppm 15 minutes. **CA British Columbia Provincial (Canada, 5/2015).** TWA: 20 ppm 8 hours. **CA Ontario Provincial (Canada, 7/2015).** TWA: 20 ppm 8 hours. **CA Quebec Provincial (Canada, 1/2014).** TWAEV: 100 ppm 8 hours. TWAEV: 434 mg/m³ 8 hours. STEV: 125 ppm 15 minutes. STEV: 543 mg/m³ 15 minutes. **CA Saskatchewan Provincial (Canada).** STEL: 125 ppm 15 minutes. TWA: 100 ppm 8 hours.
Carbon black, respirable powder	**CA British Columbia Provincial (Canada, 5/2015).** TWA: 3 mg/m³ 8 hours. Form: Inhalable **CA Ontario Provincial (Canada, 7/2015).** TWA: 3 mg/m³ 8 hours. Form: Inhalable fraction **CA Alberta Provincial (Canada, 4/2009).** 8 hrs OEL: 3.5 mg/m³ 8 hours. **CA Quebec Provincial (Canada, 1/2014).** TWAEV: 3.5 mg/m³ 8 hours.

Section 8. Exposure controls/personal protection

	CA Saskatchewan Provincial (Canada). STEL: 7 mg/m³ 15 minutes. TWA: 3.5 mg/m³ 8 hours.
Mesitylene	**CA Alberta Provincial (Canada, 4/2009).** 8 hrs OEL: 123 mg/m³ 8 hours. 8 hrs OEL: 25 ppm 8 hours. **CA British Columbia Provincial (Canada, 5/2015).** TWA: 25 ppm 8 hours. **CA Quebec Provincial (Canada, 1/2014).** TWAEV: 25 ppm 8 hours. TWAEV: 123 mg/m³ 8 hours. **CA Ontario Provincial (Canada, 7/2015).** TWA: 123 mg/m³ 8 hours. TWA: 25 ppm 8 hours. **CA Saskatchewan Provincial (Canada).** STEL: 30 ppm 15 minutes. TWA: 25 ppm 8 hours.
1,2,3-Trimethylbenzene	**CA Alberta Provincial (Canada, 4/2009).** 8 hrs OEL: 123 mg/m³ 8 hours. 8 hrs OEL: 25 ppm 8 hours. **CA British Columbia Provincial (Canada, 5/2015).** TWA: 25 ppm 8 hours. **CA Quebec Provincial (Canada, 1/2014).** TWAEV: 25 ppm 8 hours. TWAEV: 123 mg/m³ 8 hours. **CA Ontario Provincial (Canada, 7/2015).** TWA: 123 mg/m³ 8 hours. TWA: 25 ppm 8 hours. **CA Saskatchewan Provincial (Canada).** STEL: 30 ppm 15 minutes. TWA: 25 ppm 8 hours.
o-Xylene	**CA Alberta Provincial (Canada, 4/2009).** 8 hrs OEL: 100 ppm 8 hours. 15 min OEL: 651 mg/m³ 15 minutes. 15 min OEL: 150 ppm 15 minutes. 8 hrs OEL: 434 mg/m³ 8 hours. **CA British Columbia Provincial (Canada, 5/2015).** TWA: 100 ppm 8 hours. STEL: 150 ppm 15 minutes. **CA Quebec Provincial (Canada, 1/2014).** TWAEV: 100 ppm 8 hours. TWAEV: 434 mg/m³ 8 hours. STEV: 150 ppm 15 minutes. STEV: 651 mg/m³ 15 minutes. **CA Ontario Provincial (Canada, 7/2015).** STEL: 651 mg/m³ 15 minutes. STEL: 150 ppm 15 minutes. TWA: 434 mg/m³ 8 hours. TWA: 100 ppm 8 hours. **CA Saskatchewan Provincial (Canada).** STEL: 150 ppm 15 minutes. TWA: 100 ppm 8 hours.
Cumene	**CA Alberta Provincial (Canada, 4/2009).** 8 hrs OEL: 50 ppm 8 hours. 8 hrs OEL: 246 mg/m³ 8 hours. **CA British Columbia Provincial (Canada, 5/2015).** TWA: 25 ppm 8 hours. STEL: 75 ppm 15 minutes. **CA Ontario Provincial (Canada, 7/2015).** TWA: 50 ppm 8 hours. **CA Quebec Provincial (Canada, 1/2014).** TWAEV: 50 ppm 8 hours. TWAEV: 246 mg/m³ 8 hours. **CA Saskatchewan Provincial (Canada).** STEL: 74 ppm 15 minutes. TWA: 50 ppm 8 hours.

Section 8. Exposure controls/personal protection

Appropriate engineering controls : No special ventilation requirements.

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 measures

Hygiene measures : Follow good industrial hygiene practice.

Eye/face protection : No special measures are required.

Skin protection

Hand protection : Not required for normal use of the pen/marker.

Body protection : Not required for normal use of the pen/marker.

Other skin protection : Not required for normal use of the pen/marker.

Respiratory protection : Not required for normal use of the pen/marker.

Section 9. Physical and chemical properties

Appearance

Physical state : Liquid.

Color : Not available.

Odor : Mild.

Odor threshold : Not available.

pH : Not available.

Melting point : Not available.

Boiling point : 64 to 4827°C (147.2 to 8720.6°F)

Flash point : Closed cup: 15°C (59°F)

Evaporation rate : Not available.

Flammability (solid, gas) : Not available.

Lower and upper explosive (flammable) limits : Lower: 1%
Upper: 7%

Vapor pressure : Not available.

Vapor density : 3.7 [Air = 1]

Relative density : 0.938

Solubility : Not available.

Partition coefficient: n-octanol/water : Not available.

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

Viscosity : 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.

Section 10. Stability and reactivity

Conditions to avoid : Avoid all possible sources of ignition (spark or flame).

Incompatible materials : Not applicable.

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	-
1,2,4-Trimethylbenzene	LC50 Inhalation Vapor	Rat	18000 mg/m³	4 hours
	LD50 Oral	Rat	5 g/kg	-
Ethylbenzene	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-
Carbon black, respirable powder	LD50 Oral	Rat	>15400 mg/kg	-
Mesitylene	LC50 Inhalation Vapor	Rat	24000 mg/m³	4 hours
	LD50 Oral	Rat	5000 mg/kg	-
4-Ethyltoluene	LD50 Oral	Rat	4850 mg/kg	-
Propylbenzene	LD50 Oral	Rat	6040 mg/kg	-
o-Xylene	LD50 Oral	Rat	3567 mg/kg	-
Cumene	LC50 Inhalation Vapor	Rat	39000 mg/m³	4 hours
	LD50 Oral	Rat	1400 mg/kg	-

Irritation/Corrosion

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%	-
m-Xylene	Eyes - Severe irritant	Rabbit	-	24 hours 5 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 mg	-
	Skin - Severe irritant	Rabbit	-	24 hours 10 µg	-
Titanium dioxide	Skin - Mild irritant	Human	-	72 hours 300 µg Intermittent	-
Ethylbenzene	Eyes - Severe irritant	Rabbit	-	500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 15 mg	-
Toluene	Eyes - Mild irritant	Rabbit	-	0.5 minutes 100 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 mg	-
	Eyes - Mild irritant	Rabbit	-	870 µg	-
	Eyes - Severe irritant	Rabbit	-	24 hours 2 mg	-
	Skin - Mild irritant	Pig	-	24 hours 250 µL	-
	Skin - Mild irritant	Rabbit	-	435 mg	-
	Skin - Moderate irritant	Rabbit	-	500 mg	-

Sensitization

There is no data available.

Mutagenicity

There is no data available.

Carcinogenicity

Classification

Section 11. Toxicological information

Product/ingredient name	OSHA	IARC	NTP	ACGIH	EPA	NIOSH
Xylene	-	3	-	A4	-	-
Ethylbenzene	-	2B	-	A3	-	-
Carbon black, respirable powder	-	2B	-	A3	-	+
o-Xylene	-	3	-	A4	-	-
Cumene	-	2B	Reasonably anticipated to be a human carcinogen.	-	-	-

Reproductive toxicity

There is no data available.

Teratogenicity

There is no data available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
1,2,4-Trimethylbenzene	Category 3	Not applicable.	Respiratory tract irritation
Mesitylene	Category 3	Not applicable.	Respiratory tract irritation
Propylbenzene	Category 3	Not applicable.	Respiratory tract irritation
Cumene	Category 3	Not applicable.	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Ethylbenzene	Category 2	Not determined	hearing organs

Aspiration hazard

Name	Result
Ethylbenzene	ASPIRATION HAZARD - Category 1
4-Ethyltoluene	ASPIRATION HAZARD - Category 1
Propylbenzene	ASPIRATION HAZARD - Category 1
Cumene	ASPIRATION HAZARD - Category 1

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

Potential immediate effects : No known significant effects or critical hazards.

Potential delayed effects : No known significant effects or critical hazards.

Long term exposure

Section 11. Toxicological information

Potential immediate effects : No known significant effects or critical hazards.

Potential delayed effects : No known significant effects or critical hazards.

Potential chronic health effects

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

Product/ingredient name	Result	Species	Exposure
1,2,4-Trimethylbenzene	Acute LC50 4910 µg/L Marine water	Crustaceans - Elasmopus pectenicrus - Adult	48 hours
	Acute LC50 7720 µg/L Fresh water	Fish - Pimephales promelas	96 hours
Ethylbenzene	Acute EC50 13300 µg/L Fresh water	Crustaceans - Artemia sp. - Nauplii	48 hours
	Acute LC50 13900 µg/L Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
Carbon black, respirable powder	Acute EC50 37.563 mg/L Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
Mesitylene	Acute LC50 13000 µg/L Marine water	Crustaceans - Cancer magister - Zoea	48 hours
	Acute LC50 12520 µg/L Fresh water	Fish - Carassius auratus	96 hours
	Chronic NOEC 400 µg/L Fresh water	Daphnia - Daphnia magna	21 days
Propylbenzene	Acute EC50 1800 µg/L Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute LC50 1550 µg/L Fresh water	Fish - Oncorhynchus mykiss	96 hours
Cumene	Acute EC50 2600 µg/L Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 7400 µg/L Fresh water	Crustaceans - Artemia sp. - Nauplii	48 hours
	Acute EC50 10600 µg/L Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 2700 µg/L Fresh water	Fish - Oncorhynchus mykiss	96 hours

Persistence and degradability

There is no data available.

Bioaccumulative potential

Product/ingredient name	$LogP_{ow}$	BCF	Potential
Xylene	3.12	8.1 to 25.9	low
1,2,4-Trimethylbenzene	3.63	243	low
Ethylbenzene	3.6	-	low
Mesitylene	3.42	161	low
4-Ethyltoluene	3.63	-	low
1,2,3-Trimethylbenzene	3.66	194.98	low
Propylbenzene	3.69	-	low
o-Xylene	3.12	8.1 to 25.9	low
2-Ethyltoluene	3.53	-	low
Cumene	3.55	94.69	low

Mobility in soil

Section 12. Ecological information

Soil/water partition coefficient (K_{OC}) : Not available.

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. Dispose material in accordance with all local, state, and federal regulations.

United States - RCRA Toxic hazardous waste "U" List

Ingredient	CAS #	Status	Reference number
Xylene o-Xylene	1330-20-7 95-47-6	Listed Listed	U239 U239

Section 14. Transport information

	DOT	TDG	IMDG	IATA
UN number	UN1210	UN1210	UN1210	UN1210
UN proper shipping name	PRINTING INK	PRINTING INK (Xylene, 1,2, 4-Trimethylbenzene)	PRINTING INK (Xylene, 1,2, 4-Trimethylbenzene)	PRINTING INK (Xylene, 1,2, 4-Trimethylbenzene)
Transport hazard class(es)	3 	3 	3 	3 
Packing group	II	II	II	II
Environmental hazards	No.	No.	No.	No.
Additional information	- Limited Quantity Exemption	Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.18-2.19 (Class 3).	- Limited Quantity Exemption	-Limited Quantity Exemption

AERG : 129

DOT-RQ Details : Xylene 100 lbs / 45.4 kg [13.946 gal / 52.791 L]
Ethylbenzene 1000 lbs / 454 kg [138.49 gal / 524.25 L]

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

U.S. Federal regulations : **TSCA 8(a) CDR Exempt/Partial exemption**: Not determined
United States inventory (TSCA 8b): Not determined.
Clean Water Act (CWA) 307: Ethylbenzene
Clean Water Act (CWA) 311: Xylene; Ethylbenzene; o-Xylene

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : Listed

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : Not applicable.

Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Xylene	≥25 - ≤50	Yes.	No.	No.	Yes.	No.
1,2,4-Trimethylbenzene	≥10 - ≤25	Yes.	No.	No.	Yes.	No.
Ethylbenzene	≥5 - ≤10	Yes.	No.	No.	Yes.	Yes.
Carbon black, respirable powder	≥5 - ≤10	No.	No.	No.	No.	Yes.
Mesitylene	≥3 - ≤5	Yes.	No.	No.	Yes.	No.
4-Ethyltoluene	≥1 - ≤3	Yes.	No.	No.	No.	No.
1,2,3-Trimethylbenzene	≥1 - ≤3	Yes.	No.	No.	Yes.	No.
Propylbenzene	≥1 - ≤3	Yes.	No.	No.	Yes.	No.
o-Xylene	≥1 - ≤3	Yes.	No.	No.	Yes.	No.
2-Ethyltoluene	≥1 - ≤3	Yes.	No.	No.	Yes.	Yes.
Cumene	≥0.3 - ≤1	Yes.	No.	No.	Yes.	Yes.

SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	Xylene 1,2,4-Trimethylbenzene Ethylbenzene o-Xylene	1330-20-7 95-63-6 100-41-4 95-47-6	≥25 - ≤50 ≥10 - ≤25 ≥5 - ≤10 ≥1 - ≤3
Supplier notification	Xylene 1,2,4-Trimethylbenzene Ethylbenzene o-Xylene	1330-20-7 95-63-6 100-41-4 95-47-6	≥25 - ≤50 ≥10 - ≤25 ≥5 - ≤10 ≥1 - ≤3

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

Section 15. Regulatory information

Massachusetts : The following components are listed: Xylene; 1,2,4-Trimethylbenzene; Ethylbenzene; Carbon black, respirable powder; Mesitylene; 1,2,3-Trimethylbenzene; Propylbenzene; o-Xylene

New York : The following components are listed: Xylene; Ethylbenzene; o-Xylene; Cumene

New Jersey : The following components are listed: Xylene; 1,2,4-Trimethylbenzene; Ethylbenzene; 3-Ethyltoluene; Carbon black, respirable powder; Mesitylene; 4-Ethyltoluene; 1,2,3-Trimethylbenzene; Propylbenzene; o-Xylene; 2-Ethyltoluene; Cumene

Pennsylvania : The following components are listed: Xylene; 1,2,4-Trimethylbenzene; Ethylbenzene; Carbon black, respirable powder; Mesitylene; 1,2,3-Trimethylbenzene; Propylbenzene; o-Xylene; Cumene

California Prop. 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
Ethylbenzene	Yes.	No.	41 µg/day (ingestion) 54 µg/day (inhalation)	No.
Carbon black, respirable powder	Yes.	No.	No.	No.
Cumene	Yes.	No.	No.	No.

Canada

Canadian lists

Canadian NPRI : The following components are listed: Xylene; 1,2,4-Trimethylbenzene; Ethylbenzene; Mesitylene; 1,2,3-Trimethylbenzene; o-Xylene

CEPA Toxic substances : None of the components are listed.

Canada inventory : Not determined.

Section 16. Other information

Procedure used to derive the classification

Classification	Justification
Not classified.	

History

Date of issue mm/dd/yyyy : 03/01/2016

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Prepared by : KMK Regulatory Services Inc.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.
Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.