

SECTION 1: PRODUCT and COMPANY IDENTIFICATIONProduct Name: Tag Marking Pen (0612000)
Tag Marking Ink (0607000)Date Prepared: February 28, 2013
Date Revised: March 2, 2017Y-TEX Corporation
1825 Big Horn Ave.
Cody, WY 82414For Health Safety Emergency Only, Call CHEM-TEL, Inc. (24 hours): 1-800-255-3924 US
813-248-0585 International
Other Information Calls: 800-443-6401, 307-587-5515 (Y-TEX)
(7:30am – 4:30pm MDT, Monday-Friday)

General Use: Marking for plastic ear tags

SECTION 2: HAZARDS IDENTIFICATION**GHS CLASSIFICATION:**

Health		Environmental	Physical
Acute Toxicity: Category 4 (inhalation; dust,mist)		Aquatic Chronic 3	Flammable Liquids & Vapours Category 2
Respiratory: No	Skin Irritation: Category 2		
Skin Sensitization: Category 1	Eye Irritation: Category 2A		
Carcinogen: Category 2	STOT SE 3; STOT RE 2		

GHS LABEL:**SIGNAL WORD:****DANGER****HAZARD STATEMENTS:**

Symbols: Flammables, Exclamation - Acute Toxicity, Health Hazard

Hazard Statements	Precautionary Statements
DANGER	
H225 Highly flammable liquid and vapour	P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P103 Read label before use.
H315 Causes skin irritation	P202 Do not handle until all safety precautions have been read and understood. P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
H317 May cause an allergic skin reaction	P233 Keep container tightly closed. P240 Ground/bond container and receiving equipment P241 Use explosion-proof electrical/ventilating/lighting equipment.
H319 Causes serious eye irritation	P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge.
H332 Harmful if inhaled	P260 Do not breathe mist, spray, vapours. P264 Wash thoroughly after handling.
H335 May cause respiratory irritation	P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area.
H351 Suspected of causing cancer	P272 Contaminated work clothing must not be allowed out of the workplace. P273 Avoid release to the environment.
H373 May cause damage to organs through prolonged or repeated exposure	P280 Wear protective gloves and eye protection. P302+P352 IF ON SKIN: Wash with plenty of water. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
H412 Harmful to aquatic life with long lasting effects	P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+P313 If exposed or concerned: Get medical advice/attention. P314 Get medical advice/attention if you feel unwell. P332+P337+P313 If skin irritation/rash or eye irritation occurs or persists: Get medical advice/attention. P362+P364 Take off contaminated clothing and wash it before reuse. P370+P378 In case of fire: Use alcohol resistant foam, carbon dioxide or dry chemical to extinguish. P403+P233 Store in well-ventilated place. Keep container tightly closed. P403+P235 Store in well-ventilated place. Keep cool. P405 Store locked up P501 Dispose of contents/containers to hazardous or special waste collection point, in accordance with applicable federal, state and local regulations. Non-refillable container. Do not reuse.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients:	Concentration (w/w) %	CAS Number
Xylene	29.97-34.25	1330-20-7
4-methylpentan-2-one	20	108-10-1
ethylbenzene	8.56-12.84	100-41-4
2-phenoxyethanol	7.96- 8	122-99-6
C.I. Solvent Black 29	7.5	117527-94-3
2-Oxepanone, polymer with 1,1'-methylenebis[4-isocyanatocyclohexane] and 2,2'-oxybis[ethanol]	1.7-5.1	54954-83-5
Carbon black	2.05	1333-86-4
Diacetone alcohol	0.85-1.7	123-42-2
Naphthalene	0.02-0.17	91-20-3
Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	0.14-0.17	41556-26-7

SECTION 4: FIRST AID**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.**Skin Contact:** Rinse skin with water/shower; remove/take off immediately all contaminated clothing. Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention.**Ingestion:** Do not induce vomiting. If exposed or concerned of if you feel unwell, get medical advice/attention.**Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

SECTION 5: FIRE FIGHTING MEASURES

Flash Point (method):	14°C	Autoignition Temperature:	Not determined
LEL:	1.0%	UEL:	Not determined
Extinguishing Media:	Alcohol resistant foam, carbon dioxide, dry chemical. Do not use a heavy water stream.		
Hazardous Combustion Products:	Carbon dioxide, carbon monoxide.		
Unusual Fire or Explosion Hazards:	Vapors are heavier than air and may travel along the ground and be ignited by remote ignition sources.		
Fire-Fighting Instructions/Equipment:	Keep personnel removed and upwind of any fire. Wear full fire-fighting turn-out gear (full Bunker gear), and respiratory protection (SCBA).		
		NFPA Rating:	Health 2, Flammability 4, Reactivity 0

SECTION 6: ACCIDENTAL RELEASE MEASURES

Use recommended personal protective equipment (see Section 8).

Small Spill: Remove sources of ignition and provide ventilation. Small quantities may be picked up with absorbent material.

Large Spill: Remove sources of ignition and provide ventilation. Large spills may be absorbed with sawdust or other suitable absorbent. Use special care to avoid static electric charges. No open flames. No smoking. Avoid all eye and skin contact and do not breathe vapour and mist.

SECTION 7: HANDLING AND STORAGE

Handling Precautions: Use recommended personal protective equipment (see Section 8). Wash thoroughly after handling. No open flames. No smoking. Use only non-sparking tools. Use only outdoors or in a well-ventilated area.

Storage Requirements: Store in a cool, dry area; away from excessive heat or sources of ignition. Keep in fireproof place. Keep container closed when not in use.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMITS: Tag Marking Pen and Tag Marking Ink – Not applicable

Chemical Name		OSHA PEL		ACGIH		VEMP Canada (Quebec)		VECD Canada (Quebec)	
		ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³
Xylene	TWA	100	435	100	434	100	434	150	651
	STEL			150	651				
4-methylpentan-2-one	TWA	100	410	20	205	50	205	75	310
	STEL			75	307				
ethylbenzene	TWA	100	435	20	434	100	434	125	543
	STEL			125	543				
Carbon black	TWA		3.5		3.5		3.5		
	STEL			75					
Diacetone alcohol	TWA	50	240	50	238	50	238		
	STEL								
Naphthalene	TWA	10	50	10	52	10	52	15	79
	STEL			15	79				

Eye/Face Protection: Safety glasses or goggles

Skin Protection: Rubber gloves, suitable clothing

Respiratory Protection: For organic solvent vapors

Engineering Controls: Normal room ventilation. Local exhaust in confined areas.

Other Controls: Avoid release to the environment. Keep out of reach of children. Do not eat, drink or smoke when using this product.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Physical State:	Black liquid ink	Flash point:	14°C
Odor:	Organic solvent	Odor Threshold (ppm):	No data available
Specific Gravity (H₂O = 1):	0.91 – 0.93	Solubility in Water:	Insoluble
Coefficient of Water/Oil solubility:	<1	pH:	No data available
Melting Point:	No data available	Boiling Point:	117°C
Vapor Pressure (mm Hg at 20°C):	No data available	Vapor Density (Air = 1):	No data available
Evaporation Rate (n-BuAc = 1):	0.75 for xylene	V.O.C.:	83-91% (w/w)

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability: Highly flammable liquid and vapour. May form flammable/explosive vapour-air mixture

Hazardous Polymerization: Will not occur

Conditions to Avoid: Heat sources, direct sunlight

Chemicals to Avoid: Strong oxidizing agents

Hazardous Decomposition Products: May release flammable gases. Burning produces irritating, toxic and noxious fumes.

SECTION 11: TOXICOLOGICAL INFORMATION

Chemical Name	LD ₅₀ oral rat	LD ₅₀ dermal rat	LD ₅₀ dermal rabbit	LC ₅₀ inhalation rat	ATE CLP (oral)	ATE CLP (dermal)	ATE CLP (gases)	ATE CLP (vapours)	ATE CLP (dust, mist)
Tag Marking Pen & Tag Ink									2.078 mg/l/4h
Xylene	>3500 mg/kg					1100.000 mg/kg			1.500 mg/l/4h
4-methylpentan-2-one		>2000 mg/kg		2000 ppm/4h			2000.000 ppmv/4h		1.500 mg/l/4h
ethylbenzene	3500 mg/kg		17.8 ml/kg	<1500 ppm	3500.000 mg/kg				1.500 mg/l/4h
2-phenoxyethanol	1850 mg/kg		>5000 mg/kg	>1000 mg/m ³	1850.000 mg/kg				
C.I. Solvent Black 29	>5000 mg/kg	>3000 mg/kg							
2-Oxepanone, polymer with 1,1'-methylenebis[4-isocyanatocyclohexane] and 2,2'-oxybis[ethanol]					500.000 mg/kg	1100.000 mg/kg	4500.000 ppmv/4h	11.000 mg/l/4h	1.500 mg/l/4h
Carbon black	>8000 mg/kg			>4.6 mg/m ³ 4h					
Diacetone alcohol	4000 mg/kg		13630 mg/kg		4000.000 mg/kg	13630.000 mg/kg			
Naphthalene	490 mg/kg		20 g/kg	>340 mg/m ³ 1h	490.000 mg/kg	20000.000 mg/kg			
Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	2369 mg/kg				2369.000 mg/kg				

Acute Effects
 Eyes: Can cause severe irritation, redness, tearing, blurred vision.
 Skin: Prolonged or repeated contact can cause irritation, defatting, dermatitis, allergic skin reaction.
 Ingestion: Can cause gastrointestinal irritation, nausea, vomiting, and diarrhea; aspiration into lungs can cause chemical pneumonitis which can be fatal.
 Inhalation: Harmful if inhaled. Excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, and even asphyxiation.
 Skin corrosion/irritation: Causes skin irritation
 Serious eye damage/irritation: Causes serious eye irritation
 Respiratory or skin sensitization: May cause an allergic skin reaction
 Germ cell mutagenicity: Not classified
 Reproductive toxicity: Not classified
 Specific target organ toxicity (single exposure): May cause respiratory irritation.
 Specific target organ toxicity (repeated exposure): May cause damage to organs through prolonged or repeated exposure.
 Carcinogenicity: Suspected of causing cancer

Chemical Name	IARC Group	National Toxicology Program (NTP) Status	NOAEL (subchronic, oral, animal, 90 days) rat
Xylene	3 – Not classifiable		
4-methylpentan-2-one	2B – Possibly carcinogenic to humans		
ethylbenzene	2B – Possibly carcinogenic to humans		
Carbon black	2B – Possibly carcinogenic to humans, Inhalation of dust	Not listed in carcinogenicity class	
Naphthalene	2B – Possibly carcinogenic to humans	3 – Reasonably anticipated to be Human Carcinogen	
2-phenoxyethanol			Male = 700 mg/kg bodyweight Female = 938.8 mg/kg bodyweight

SECTION 12: ECOLOGICAL INFORMATION

Toxicity Ecology - Water: Harmful to aquatic life with long lasting effects

Chemical Name	LC ₅₀ fish 1	EC ₅₀ Daphnia 1	NOEC	LOEC
4-methylpentan-2-one	> 179 96h	> 200 48h		
ethylbenzene	5.1 mg/l	7.7 mg/l other aquatic organisms 1	3.3 mg/l (acute)	
Diacetone alcohol	420 mg/l 96h	9000 mg/l 24h		
2-phenoxyethanol	334 mg/l 96h Pimephales promelas	>500 mg/l 48h	23 mg/l 34 days (chronic)	50 mg/l 34 days (chronic)
Naphthalene	LC ₅₀ fish 2, >1 (1-6.5) mg/l Pimephales promelas	>= 1.96 mg/l 33 mg/l other aquatic organisms 1	1.8 mg/l (acute)	3.2 mg/l (acute)
Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	0.97 mg/l 96h	20 mg/l 24h		
C.I. Solvent Black 29	20mg/l 96h			

Persistence and degradability Tag Marking Pen & Tag Ink - May cause long-term adverse effects in the environment

Chemical Name	Persistence and degradability	Biodegradation
4-methylpentan-2-one	Readily biodegradable	
Diacetone alcohol	Readily biodegradable	100% 14 days
ethylbenzene	Not established	
2-phenoxyethanol	Readily biodegradable	>90% 3 days
Carbon black	Not readily biodegradable	
Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate		38% 28 days
C.I. Solvent Black 29	Not readily biodegradable	

Bioaccumulative potential

Chemical Name	Log Pow	BCF fish 1 Bioconcentration factor	Bioaccumulative potential
4-methylpentan-2-one	1.9		
Diacetone alcohol	1.03		
Xylene		1.3 mg/l	Not expected to bioaccumulate
ethylbenzene			Not established
2-phenoxyethanol	1.2	0.3493 calculated (BCF REACH)	
Naphthalene		>= 427 (427-1158)	
Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	0.37		
C.I. Solvent Black 29	<3.7 @ 20°C		

Mobility in Soil: No additional information available
 Other adverse effects: No additional information available

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods: Do not dispose in household garbage.
 Sewage disposal recommendations: Do not dispose of waste into sewer.
 Waste disposal recommendations: Dispose in a safe manner in accordance with local/national regulations.
 Additional information: Handle empty containers with care because residual vapours are flammable.
 Ecology – waste materials: Avoid release to the environment.

SECTION 14: TRANSPORT INFORMATION

U.S. DOT: Consumer Commodity, ORM-D
IATA: UN1210, Printing Ink related material, Class 3, PGII, Limited Quantity
VESSEL (IMO/IMDG): UN1210, Printing Ink related material, Class 3, PGII, Limited Quantity

SECTION 15: REGULATORY INFORMATION	
Chemical Name	Applicable Regulations
Tag Marking Pen & Tag Ink	All ingredients in product are listed on the U.S. TSCA (Toxic Substances Control Act) Inventory All ingredients in product are listed on the Canadian DSL (Domestic Substances List) Inventory All ingredients in product are listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) The carbon black in this product is bound and is not respirable. California Prop. 65 warnings are not required.
Xylene	Listed on the U.S. TSCA Inventory Listed on the Canadian DSL Inventory Listed on the EEC inventory EINECS
4-methylpentan-2-one	Listed on the U.S. TSCA Inventory Subject to reporting requirements of U.S. SARA Section 313 RQ (Reportable quantity, section 304 of EPA's List of Lists) - 5,000 lbs. Listed on the Canadian DSL Listed on the EEC inventory EINECS Listed on the U.S. California Proposition 65 Carcinogens List Listed on the U.S. Massachusetts, New Jersey and Pennsylvania Right to Know Lists
ethylbenzene	Listed on the U.S. TSCA Inventory Subject to reporting requirements of U.S. SARA Section 313 RQ (Reportable quantity, section 304 of EPA's List of Lists) - 1,000 lbs. Listed on the Canadian DSL Listed on the EEC inventory EINECS Listed on the U.S. California Proposition 65 Carcinogens List Listed on the U.S. Massachusetts, New Jersey and Pennsylvania Right to Know Lists Non-significant risk level (NSRL) 54
2-phenoxyethanol	Listed on the U.S. TSCA Inventory Listed on the Canadian DSL Listed on the EEC inventory EINECS U.S. Pennsylvania Right to Know list
C.I. Solvent Black 29	Listed on the U.S. TSCA Inventory Listed on the Canadian DSL Listed on the EEC inventory EINECS
2-Oxepanone, polymer with 1,1'-methylenebis[4-isocyanatocyclohexane] and 2,2'-oxybis[ethanol]	Listed on the U.S. TSCA Inventory Listed on the Canadian DSL Listed on the EEC inventory EINECS
Carbon black	Listed on the U.S. TSCA Inventory Listed on the Canadian DSL Listed on the EEC inventory EINECS Listed on the U.S. California Proposition 65 Carcinogens List U.S. New Jersey Right to Know list
Diacetone alcohol	Listed on the U.S. TSCA Inventory Listed on the Canadian DSL Listed on the EEC inventory EINECS
Naphthalene	Listed on the U.S. TSCA Inventory Subject to reporting requirements of U.S. SARA Section 313 RQ (Reportable quantity, section 304 of EPA's List of Lists) - 100 lbs. U.S. SARA Section 311/312 Hazard Classes: Delayed (chronic) and Immediate (acute) health hazard Listed on the Canadian DSL Listed on the EEC inventory EINECS Listed on the U.S. California Proposition 65 Carcinogens List Listed on the U.S. Massachusetts, New Jersey and Pennsylvania Right to Know Lists
Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	Listed on the U.S. TSCA Inventory Listed on the Canadian DSL Listed on the EEC inventory EINECS

OSHA Hazard Status: This product is considered to be hazardous as defined by the U.S. OSHA HCS (29 CFR 1910.1200).

This product has been classified in accordance with the hazard criteria of the U.S. OSHA Hazard Communication Standard and the Canadian WHMIS Controlled Products Regulations. This SDS contains all the information required by the above regulations and conforms to ANSI Z400.1-1993.

SECTION 16: OTHER INFORMATION

Revision date: 3/2/2017

Updated entire SDS based on ink supplier's most current SDS updates