

SECTION 1: PRODUCT and COMPANY IDENTIFICATION

Product Name: Tag Marking Pen (0612000) (10ml/0.34 fl. oz.) Date Prepared: February 28, 2013
 Tag Marking Ink (0607000) (30ml/1 fl. oz.) Date Revised: November 4, 2019

Y-TEX Corporation For Health Safety Emergency Only, Call CHEM-TEL, Inc., Contract No. MIS0004411,
 1825 Big Horn Ave. 24 hours: 1-800-255-3924 US; 813-248-0585 International
 Cody, WY 82414 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:

| <u>Health</u> | | <u>Environmental</u> | <u>Physical</u> |
|--|-----------------------------|----------------------|---|
| 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

| <u>Hazard Statements</u> | <u>Precautionary Statements</u> |
|--|--|
| 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

We certify that the above product is composed of the following ingredients and does not have any other components.

| Hazardous Ingredients: | Concentration (w/w) % | CAS Number |
|---|--------------------------|-------------|
| Xylene | 25 - 35 | 1330-20-7 |
| 4-methylpentan-2-pentanone | 15 - 25 | 108-10-1 |
| ethylbenzene | 5 - 10 | 100-41-4 |
| 2-phenoxyethanol | 5 - 10 | 122-99-6 |
| C.I. Solvent Black 29 | 5 - 10 | 117527-94-3 |
| 2-Oxepanone, polymer with 1,1'-methylenebis[4-isocyanatocyclohexane] and 2,2'-oxybis[ethanol] | 1 - 7 | 54954-83-5 |
| Carbon black | 1 - 3 | 1333-86-4 |
| Diacetone alcohol | 0.5 - 2 | 123-42-2 |
| Naphthalene | 0.01 - 0.2 | 91-20-3 |
| Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate | 0.1 - 0.2 | 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 person 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 Flammability Classification: Highly Flammable liquid and vapour
 Extinguishing Media: 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 | | NIOSH REL | |
|----------------------------|------|----------|-------------------|-------|-------------------|-----------|-------------------|
| | | ppm | mg/m ³ | ppm | mg/m ³ | ppm | mg/m ³ |
| Xylene | TWA | 100 | 435 | 100 | 434 | 100 | 435 |
| | STEL | | | 150 | 651 | 150 | 655 |
| 4-methylpentan-2-pentanone | TWA | 100 | 410 | 20 | 205 | 50 | 205 |
| | STEL | | | 75 | 307 | 75 | 300 |
| ethylbenzene | TWA | 100 | 435 | 20 | 434 | 100 | 435 |
| | STEL | | | 125 | 543 | 125 | 545 |
| Carbon black | TWA | | 3.5 | | 3 | | 3.5 |
| | STEL | | | 75 | | | 0.1 |
| Diacetone alcohol | TWA | 50 | 240 | 50 | 238 | 50 | 240 |
| | STEL | | | | | | |
| Naphthalene | TWA | 10 | 50 | 10 | 52 | 10 | 50 |
| | STEL | | | 15 | 79 | 15 | 75 |

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.:** 85% (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, open flame

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 US (oral) | ATE US (dermal) | ATE US (gases) | ATE US (vapours) | ATE US (dust, mist) |
|---|---------------------------|-----------------------------|--------------------------------|---------------------------------|---------------|-----------------|----------------|------------------|---------------------|
| Tag Marking Pen & Tag Ink | | | | | | | | | 2.078 mg/l/4h |
| Xylene | >3500 mg/kg | | | | | 1100 mg/kg | 4500 ppmv/4h | 11 mg/l/4h | 1.5 mg/l/4h |
| 4-methylpentan-2-pentanone | | >2000 mg/kg | | 2000 ppm/4h | | | 2000 ppmv/4h | 11 mg/l/4h | 1.5 mg/l/4h |
| ethylbenzene | 3500 mg/kg | | 17.8 ml/kg | <1500 ppm | 3500 mg/kg | | | | 1.5 mg/l/4h |
| 2-phenoxyethanol | 1850 mg/kg | | >5000 mg/kg | >1000 mg/m ³ | 1850 mg/kg | | | | |
| C.I. Solvent Black 29 | >5000 mg/kg | >2000 mg/kg | | | | | | | |
| 2-Oxepanone, polymer with 1,1'-methylenebis[4-isocyanatocyclohexane] and 2,2'-oxybis[ethanol] | | | | | 500 mg/kg | 1100 mg/kg | 4500 ppmv/4h | 11 mg/l/4h | 1.5 mg/l/4h |
| Carbon black | >8000 mg/kg | | | >4.6 mg/m ³ 4h | | | | | |
| Diacetone alcohol | 4000 mg/kg | | 13630 mg/kg | | 4000 mg/kg | 13630 mg/kg | | | |
| Naphthalene | 490 mg/kg | | 20 g/kg | >340 mg/m ³ 1h | 490 mg/kg | 20000 mg/kg | | | |
| Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate | 2369 mg/kg | | | | 2369 mg/kg | | | | |

Acute Effects
 Eyes: Can cause severe irritation, redness, tearing, blurred vision.
 Skin: Prolonged or repeated contact can cause irritation. May cause allergic skin reaction.
 Ingestion: Like any product not designed to be ingested, this product may cause stomach distress if ingested in large quantities.
 Inhalation: Danger of serious damage to health by prolonged exposure through inhalation. Harmful if inhaled. May cause respiratory irritation.
 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-pentanone | 2B – Possibly carcinogenic to humans | | |
| ethylbenzene | 2B – Possibly carcinogenic to humans | | |
| Carbon black | 2B – Possibly carcinogenic to humans, Inhalation of dust | | |
| 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-pentanone | > 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 1, >0.91 (0.91-2.82) mg/l Oncornhynchus mykiss 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 | 2 mg/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-pentanone | 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-pentanone | 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 CERCLA RQ (Reportable quantity, section 304 of EPA's List of Lists) - 100 lbs. Listed on the Canadian DSL Inventory Listed on the EEC inventory EINECS Listed on the U.S. New Jersey and Pennsylvania Right to Know Lists |
| 4-methylpentan-2-pentanone | Listed on the U.S. TSCA Inventory Subject to reporting requirements of U.S. SARA Section 313 CERCLA 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. 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 CERCLA 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. 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 - The carbon black in this product is bound and is not respirable. California Prop. 65 warnings are not required. 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 CERCLA 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. New Jersey and Pennsylvania Right to Know Lists Listed on EPA Hazardous Air Pollutant (HAPS) |
| 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).

State or local regulations:  **WARNING:** Cancer and Reproductive Harm – www.P65Warnings.ca.gov

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

SECTION 16: OTHER INFORMATION

Revision date: November 4, 2019

Added "We certify that the above product is composed of the following ingredients and does not have any other components." In Section 3.