

Conductive pen

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
according to Canadian Hazardous Products Regulations (HPR)



Conductive pen

SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Conductive Pen
Product Number: 245-1102
Distributor: BEST Inc
3603 Edison Place
Rolling Meadows IL
(897) 797 9250
Emergency Response: For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident
Call CHEMTREC Day or Night
Within USA and Canada: 1-800-424-9300 CCN4877
Outside USA and Canada: +1 703-527-3887 (collect calls accepted)



SECTION 2: Hazards identification

Classifications: Classification according to Regulation(EC)No1272/2008
Classifications applicable to the OSHA GHS Hazard Communication Standard (29CFR1910.1200)

Emergency Overview: Silver colored paint with an aromatic hydrocarbon odor. This product is flammable. Liquid and vapors will irritate eyes and skin. Breathing high concentrations of product may produce headache, nausea, and drowsiness.

Potential Health Effects:

Eyes: Vapors of this product may irritate the eyes. Liquid is irritating and may cause tearing, redness, swelling or temporary corneal damage.

Skin: Contact may cause irritation. prolonged contact may cause dermatitis.

Ingestion: Harmful if swallowed. May cause nervous system depression.

Inhalation: Harmful if inhaled. May cause headache, nausea, vomiting, dizziness, drowsiness, irritation of the respiratory tract/mucous membranes. Extreme over-exposure may cause loss of consciousness and narcosis.

Pre-Existing Medical Conditions Aggravated by Exposure: Heart, lung, eye, skin.

SECTION 3: Composition/information on ingredients

Chemical Name	CAS No.	Wt. % Range
Silver	7440-22-4	35.0-65.0
Propylene Glycol Methyl Ether Acetate	108-65-6	2.0-20.0
Ethylene Glycol Monobutyl Ether Acetate	112-07-2	2.0-20.0
n-Butyl Acetate	123-86-4	5.0-35.0
Acrylic Resin	Mixture	15.0-40.0

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SECTION 4: First aid measures

- Inhalation:** In case of exposure to high concentrations of vapor or mist, remove to fresh air. If breathing is difficult, give oxygen and call a Physician. If breathing has stopped, apply artificial respiration and call a Physician.
- Skin Contact:** Remove contaminated clothing and wash skin with soap and water. Get medical attention if irritation develops or persists. Wash clothing separately before reuse.
- Ingestion:** If swallowed, give two or more glasses of water immediately. DO NOT induce vomiting. Get medical attention.

SECTION 5: Firefighting measures

- Flash Point & Method:** 76 degrees F (24 degrees C)
- LEL/UEL:** 1.5/10.0 (% by volume in air)
- Extinguishing Media:** Use alcohol foam, water foam, carbon dioxide, dry chemical, or water spray. Water may not be effective in fighting the fire but can be used to cool overheated areas. Care must be taken to not spread the fire.
- Fire Fighting Instructions:** Remove all ignition sources. Use water spray to cool overheated containers. Take care not the spread fire with water. As in any fire, wear self-contained breathing apparatus (pressure demand, OSHA/NIOSH approved or equivalent) and full protective gear. Solvent vapors are an explosion hazard. Keep material away from all sources of ignition, extreme heat, sparks or open flame. Material can be easily ignited and burns with intense heat.

SECTION 6: Accidental release measures

- Land Spill:** Remove all sources of ignition (sparks, open flames, etc.). Wear self-contained breathing apparatus and appropriate personal protective equipment. Ventilate area and contain and absorb spill with inert material. Collect spill by scooping up liquids and absorbent material and place in a chemical waste container for proper disposal. Do not flush to sewer. Prevent material from entering storm sewers, ditches that lead to waterways and ground.
- Small Spills:** Absorb spill with absorbent material, then place in a chemical waste container for proper disposal.

SECTION 7: Handling and storage

Avoid prolonged or repeated contact with skin, eyes or clothing. Wash hands before eating. Use with adequate ventilation. Avoid breathing product vapor. Do not reuse this container. Store in a cool dry place, away from heat, sparks or flames. Keep container tightly closed when not in use. Do not store in direct sunlight. Keep out of reach of children.

SECTION 8: Exposure controls/personal protection

Chemical Name	ACGIH TLV	OSHA PEL	ACGIH STEL
Silver	0.1 mg/m ³	0.01mg/m ³	N/A
Propylene Glycol Methyl Ether Acetate	N/A	N/A	N/A
Ethylene Glycol Monobutyl Ether Acetate	N/A	N/A	N/A
Ethylene Glycol Monobutyl Ether Acetate	N/A	N/A	N/A
n-Butyl Acetate	N/A	N/A	N/A
Acrylic Resin	150 ppm	150 ppm	200 ppm

SECTION 9: Physical and chemical properties

- Physical State:** Silver colored paint
- Odor:** Aromatic hydrocarbon
- pH:** N/A
- Vapor Pressure:** 5-6 mmHg @ 20°C
- Solubility in Water:** > 10%
- Evaporation Rate:** >1 (Butyl acetate=1)
- Percent Volatile:** 30-40%
- Vapor Density:** >1 (Air = 1)
(Butyl acetate=1)
- Solubility in Water:**
- Boiling Range:** 259 - 378°F (127 - 192°C)
- Vapor Density:** >1 (Air = 1)

SECTION 10: Stability and reactivity

- Stability:** This product is stable.
- Conditions to Avoid:** Avoid heat, sparks, open flame and strong oxidizing conditions.
- Incompatibility:** Do not mix strong oxidizers, acids, bases, caustics, amines and alkali contamination.
- Products of Decomposition:** Decomposition may release carbon monoxide, carbon dioxide, oxides of nitrogen, monomers and smoke. Depending on conditions, some highly reactive peroxides may be formed.
- Hazardous Polymerization:** Will not occur. Material is not known to polymerize.
- Conditions to avoid:** N/A

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SECTION 11: Toxicological information

Ingredients	LD50 (rat) Oral	LD50 (rbt) Dermal	LC50 (rat) Inhalation
Silver	>10000 mg/kg	5,000 mg/kg	
Propylene Glycol Methyl Ether Acetate	8,500 mg/kg	>5000 mg/kg	>4300 ppm
Ethylene Glycol Monobutyl Ether Acetate	2400 mg/kg	500 mg/24H MLD	>4300 ppm
n-Butyl Acetate	10,768 mg/kg	500 mg/24H MLD	2000 ppm/4H

Cancer Information: No ingredients listed as human carcinogens by NTP or IARC

Reproductive effects: None

Mutagenic effects: None

Teratogenic effects: None

SECTION 12: Ecological information

Environmental Impact Information Avoid runoff into storm sewers and ditches which lead to waterways. Water runoff can cause environmental damage.

Reporting US regulations require reporting spills of this material that could reach any surface waters.

SECTION 13: Disposal considerations

Water runoff can cause environmental damage.

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

SECTION 14: Transport Information

	Proper Shipping Name	UN Number	Class	Risk	Pkg Group	Hazard Label	Pkg Instruction	Max. Quantity
Air:	Paint	UN1263	3	-	III	Flammable Liquid	Y309	1L - 5L
Ground:	Consumer Commodity - ORM-D	-	ORM-D	-	-	ORM-D	173.150	5L

SECTION 15: Regulatory information

Section 313 Supplier Notification

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372).

Silver CAS# 7440-22-4 35.0-65.0%

SECTION 16: Other information

Normal ventilation for standard manufacturing practices is usually adequate. Local exhaust should be used when large amounts are released.

To the best of our knowledge, the information contained herein is accurate. However, neither Best Inc., nor any of its distributors 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 which exist.