

Think

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Thinker, Ltd.

Material Safety Data Sheet

MSDS date: 03/29/91

Emergency contact: Think & Tinker, Ltd 800-4392-4941

I Product Identification

Product Name: Conductive ink
Chemical Family:
Chemical Name: Conductive adhesive mixture
Trade Name: 415/423 SS

II OSHA Regulated Ingredients

Table with 3 columns: C.A.S. Reg No., Material, Wgt %, Exposure Limit. Rows include Graphite, Carbon Black, Silver, Diacetone Alcohol, Ethylene-glycol-monomethyl-ether-acetate.

Hazardous mixtures of other liquids, solids, or gases:

- Polymer resin system
Silver metal/graphite powder
2-2 butoxy ethoxy ethy acetate solvent
Diacetone alcohol

III Physical Data

State: liquid
Appearance: silver-black color
Odor: mild
Solubility in: water - negligible
Stability: Stable
Boiling Point: NA
Melting Point: NA
Spec Gravity: 1.2
PH: NA
Vapor Pressure: <1 mm Hg
Vapor Density (air=1): heavier than air
Evaporation Rate: NA
Corrosivity: NA
Storage precautions: keep container closed when not in use

IV Fire, Explosion Hazard and Reactivity Data

Flash Pt: 145°F
Method: Tag closed cup
Flammability limits: NA
Extinguishing Media: CO2, dry chemical, or foam
Fire/Explosion Hazards: Toxic fumes may be evolved when exposed to open flame. Keep away from flame, sparks and other sources of ignition
Special fire fighting procedures: breathing apparatus recommended
Stability: stable - avoid open flame
Incompatibility (materials to avoid): strong oxidizers, acids, amines, amides, anhydride thiosulfates and alcohol

Hazardous decomposition products: carbon monoxide, carbon dioxide, aldehydes acids

Hazardous polymerization: none

Conditions to avoid: storage in open container, exposure to open flame or incompatible materials

V Health Hazard Data

Effects of overexposure: May cause respiratory irritation, headache, nausea or dizziness if inhaled. If eye contact occurs, flush with water at least 15 minutes and consult physician immediately. If skin in contacted, wash affected area with soap and water. Prolonged exposure may result in skin sensitization.

VI Precautionary Measures

Do not get on skin, eyes or clothing. Remove contaminated clothing and wash before reusing.

VII Spill and Disposal Procedures

In Case of Spill or Release: Wipe up with absorbent material, collect waste in sealed containers, wash area with soapy water and rinse.
Dispose of in accordance with all federal, state and local regulations.

VIII Special Protection Information

Respiratory protection (specify type): fitted respirator
Ventilation: local exhaust - mechanical (general)
Protective gloves: should be used
Eye protection: should be used
Other protective equipment: protective clothing

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Abbreviations

CAS = Chemical Abstract Service
NI = No relevant information available
NA = Not applicable
NE = Not established
ND = Not determined
PEL = OSHA Permissible Exposure Limit
TLV = ACGIH Threshold Limit Value
NTP = National Toxicology Program
IARC = International Agency for Research on Cancer

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