

Safety Data Sheet

Product No. 16040-30 Fast Drying Silver Paint

Issue Date (08-18-14)

Review Date (09-25-15)

Section 1: Product and Company Identification

Product Name: Fast Drying Silver Paint

Synonym: Electrodag 1415M, Fast drying silver Suspension

Company Name

Ted Pella, Inc., P.O. Box 492477, Redding, CA 96049-2477

Domestic Phone (800) 237-3526 (Mon-Thu. 6:00AM to 4:30PM PST; Fri 6:00AM to 4:00PM PST)

International Phone (01) (530) 243-2200 (Mon-Thu. 6:00AM to 4:30PM PST; Fri 6:00AM to 4:00PM PST)

Chemtrec Emergency Number 1-800-424-9300 24 hrs a day.

Section 2: Hazard Identification

2.1 Classification of the substance or mixture

GHS Pictograms



GHS02



GHS07

GHS Categories

GHS02: Flammable

Flam. Liq. 2

H225: Highly flammable liquid and vapor.

GHS07: Irritant

Acute Tox. 4

H332: Harmful if inhaled.

Eye Irrit. 2

H319: Causes serious eye irritation.

STOT SE 3

H335: May cause respiratory irritation.

2.2 Label elements

Hazard Pictograms



GHS02



GHS07

Signal Word: DANGER

Hazard-determining components of labeling:

Methyl isobutyl ketone

Hazard statements

H225 Highly flammable liquid and vapor.

H332 Harmful if inhaled.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

Precautionary statements

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.

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P241 Use explosion-proof electrical/ventilating/lighting/equipment.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other Hazards

HMIS® Hazard Rating: Health: **2**; Flammability: **3**; Physical: **0**; Personal Protection: See Section 8

(0=least, 1=Slight, 2=Moderate, 3=High, 4=Extreme)

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

Emergency overview

Appearance: Silver colored fluid

Odor: Solvent

Immediate effects: The substance is harmful by inhalation and is irritating to eyes and respiratory system. High concentrations will cause narcotic effects. The liquid degrades the skin.

Potential health effects

Primary Routes of entry: Skin contact. The substance may be absorbed into the body by inhalation, ingestion and through the skin. Formation of product mist when applied by spray, which could be inhaled.

Signs and Symptoms of Overexposure: High concentrations will cause narcotic effects.

Eyes: Irritating to eyes

Skin: The liquid degrades the skin. May cause irritation. A component in this product may be absorbed through the skin in harmful amounts. Prolonged cosmetic blue-gray discoloration of the skin and mucous membranes that is irreversible. Repeated exposure may cause skin dryness or cracking.

Ingestion: Can cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Inhalation: Harmful by inhalation. Irritating to respiratory system.

Chronic Exposure: ND

Chemical Listed As Carcinogen Or Potential Carcinogen: No

See Toxicological Information (Section 11)

Potential environmental effects

See Ecological Information (Section 12)

Section 3: Composition / Information on Ingredients

Mixture of substances listed below with nonhazardous additions.

Principle Hazardous Component(s) (chemical and common name(s)) (Cas. No)	%	OSHA PEL PPM	ACGIH TLV PPM	NTP	IARC	OSHA regulated
Silver (7440-22-4)	30-60	0.01mg/m ³ TWA	0.1mg/m ³ TWA	No	No	No
4-methylpentan-2-one* (108-10-1) WEL Short-term value: 416 mg/m ³ , EINECS: 203-550-1 Flam. Liq. 2: H225 Acute Tox. 4: H332 Eye Irrit. 2: H319 STOT SE 3: H335	25-50	100 PPM 410mg/m ³ TWA	75 PPM STEL 20 PPM TWA	No	2B	No
Vinyl resin (Proprietary)	5-10	ND	ND	No	No	No

Or *Methyl isobutyl ketone

Section 4: First Aid Measures

If accidental overexposure is suspected

Eye(s) Contact: Rinse immediately with water. Eye bath advisable. If irritation persists seek medical attention.

Skin Contact: Treat with a suitable cleaner and wash afterwards with water and soap. If irritation persists seek medical attention.

Inhalation: Move person to fresh air. If person feels unwell seek medical advice.

Ingestion: Rinse mouth with water. Do not induce vomiting. Seek medical advice.

Note to physician

Treatment: Treat symptomatically and supportively.

Medical Conditions generally Aggravated by Exposure: Eye, skin and respiratory disorders.

Section 5: Fire Fighting Measures

Flash Point: 14° C (57.2 °F)

Flammable Limits: Explosive limits in air: Lower:1.2%, Upper: 8%

Auto-ignition point: Product is not self-igniting.

Fire Extinguishing Media: Water mist, powder, carbon dioxide or foam.

Unsuitable media: Full water jet.

Special Fire Fighting Procedures: Use chemical protection suit and a self-contained breathing apparatus.

Unusual Fire and Explosion Hazards: Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Vapors may travel considerable distance to source of ignition and flash back.

Hazardous combustion products: Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

DOT Class: Flammable

Section 6: Accidental Release Measures

Steps to be Taken in Case Material is Released or Spilled:

Environmental precautions: Prevent substance entering soil, surface waters, water courses, sewers, basements and work pits.

Personal precautions, protective equipment and emergency procedures: Wear appropriate protective equipment and clothing during clean-up. Eliminate ignition sources including sources of electrical, static or frictional sparks. Avoid skin, eye contact and inhalation.

Methods and material for clean-up: Absorb in earth or sand, collect in a suitable container and remove to a safe place. Clean area well.

Waste Disposal Methods: Dispose of waste according to Federal, State and Local Regulations.

Section 7: Handling and Storage

Precautions to be Taken in Handling and Storage:

Storage: Keep away from heat, spark and flame. Keep container tightly closed and in a cool, well-ventilated place away from incompatible materials. Do not cut or weld on empty drums. Sufficient vapors from residues may be present to cause explosion and serious injury and/or death.

Handling: No smoking. Avoid contact with eyes, skin and clothing. Use protective gloves. Avoid breathing vapors or mists of this product. Use only with adequate ventilation. Wash thoroughly after handling.

Storage temperature: Store between 5 °C (41°F) and 30 °C (86°F).

Storage Pressure: ND

Section 8: Exposure Controls / Personal Protection

Control Parameters

Ingredients with limit values that require monitoring at the workplace:	
108-10-1 Methyl isobutyl ketone	
WEL	Short-term value: 416 mg/m ³ , 100 ppm Long-term value: 208 mg/m ³ , 50 ppm

	Sk, BMGV
Ingredients with biological limit values:	
108-10-1 Methyl isobutyl ketone	
BMGV	20 µmol/L Medium: urine Sampling time: post shift Parameter: Methyl isobutyl ketone

Engineering Controls

Ventilation required: Use in fume hood. Provide local and general exhaust ventilation to effectively remove and prevent buildup of any vapors or mists generated from the handling of this product.

Personal Protection Equipment

General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Do not inhale gases/fumes/aerosols.

Respiratory protection: Ventilation via local exhaust. In case of insufficient ventilation in closed rooms, wear suitable respiratory equipment.

Protective gloves: Use protective gloves impermeable/resistant to the substance.

Skin protection: Wear suitable protective clothing.

Eye protection: Safety goggles with side shields.

Additional clothing and/or equipment: ND

Exposure Guidelines

See Composition/Information on Ingredients (Section 3)

Section 9 Physical and Chemical Properties

Appearance and Physical State: Silver colored fluid.

Odor (threshold): Solvent (ND)

Specific Gravity (H₂O=1): 1.63

Vapor Pressure (hPa): 7

Vapor Density (air=1): ND

Percent Volatile by volume: ND

VOC content: 41.7%

Evaporation Rate (butyl acetate=1): ND

Boiling Point: 116 °C (243.5 °F)

Freezing point: -85 °C (-121 °F)

pH: ND

Solubility in Water: Insoluble

Solids content: 57.5-59.0%

Molecular Weight: NA

Section 10: Stability and Reactivity

Stability: Stable.

Conditions to Avoid: Heat and incompatible materials.

Materials to Avoid (Incompatibility): Strong oxidants.

Hazardous Decomposition Products: Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

Hazardous Polymerization: Will not occur.

Section 11: Toxicological Information

Results of component toxicity test performed:

LD/LC50 values relevant for classification: Methyl isobutyl ketone [108-10-1]

Oral	LD50	2080 mg/kg	(Rat)
Dermal	LD50	16000 mg/kg	(Rabbit)
Inhalative	LC50/4h	8.3-16.6 mg/l	(Rat)

Primary irritant effect:

On the skin: Repeated exposure may cause skin dryness or cracking.

On the eye: Irritating effect.

Sensitization: No other information available.

Human experience: High concentrations will cause narcotic effects. The liquid degrades the skin.

This product **does not** contain any compounds listed by NTP or IARC or regulated by OSHA as a carcinogen.

Section 12: Ecological Information

Ecological Information: Prevent contamination of soil, drains and surface waters.

Contaminated waste water should be treated in a suitable cleaning plant. Product contains solvent(s). Very toxic to aquatic organisms.

Persistence and degradability: Prevent contamination of soil, drains and surface waters.

Contaminated waste water should be treated in a suitable cleaning plant.

Bioaccumulative potential: ND

Mobility in soil: ND

General notes: Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Chemical Fate Information: ND

Section 13 Disposal Considerations

RCRA 40 CFR 261 Classification: D001. If discarded, this product is considered a RCRA ignitable waste. This product contains a component identified as hazardous under 40CFR 261.24. U161: Methyl isobutyl ketone.

Federal, State and local laws governing disposal of materials can differ. Ensure proper disposal compliance with proper authorities before disposal.

Section 14: Transportation Information

US DOT Information: Proper shipping name: 1263 Paint, solution

Hazard Class: 3

Packaging group: II

UN Number: UN1263

IMDG: Proper shipping name: 1263 Paint, solution

Hazard Class: 3
Packing group: II
UN Number: UN1263
IATA: Proper shipping name: 1263 Paint, solution
Hazard Class: 3
Packing group: II
UN Number: UN1263
Marine pollutant: No
Canadian TDG: Proper shipping name: 1263 Paint, solution

Section 15: Regulatory Information

United States Federal Regulations

SDS complies with OSHA's Hazard Communication Rule 29, CFR 1910.1200.

SARA (Section 302): None above reporting *de minimis*.

SARA (Section 313): This product contains the following toxic chemicals subject to this section's reporting requirements:

Methyl isobutyl ketone (CAS# 108-10-1)

SARA Title III (Section 311/312): Immediate Health, Fire

RCRA: D001

TSCA: All components are listed or exempt from reporting. Export Notification: None above reporting *de minimis*.

CERCLA: Reportable Quantities (RQ):

Methyl isobutyl ketone (CAS# 108-10-1) 5,000 lbs. (2,270 kg)

State Regulations

California Proposition 65: This product contains a chemical known in the State of California to cause cancer and birth defects or other reproductive harm.

International Regulations

Canada WHMIS: B.2, D.2.B

CEPA DSL/NDSL Status: All components are listed on or are exempt from listing on the Canadian Domestic Substances List.

Europe EINECS Numbers: ND

Section 16: Other Information

Label Information: Flammable

European Risk and Safety Phrases: 11-20-36/37-66

European symbols needed: F + Xn

Canadian WHMIS Symbols: ND

Abbreviations used in this document

NE= Not established

NA= Not applicable

NIF= No Information Found

ND= No Data

Disclaimer

Ted Pella, Inc. makes no warranty of any kind regarding the information furnished herein. Users should independently determine the suitability and completeness of

information from all sources. While this data is presented in good faith and believed to be accurate, it should be considered only as a supplement to other information gathered by the user. It is the User's responsibility to assure the proper use and disposal of these materials as well as the safety and health of all personnel who may work with or otherwise come in contact with these materials.

SDS Form 0013F1 V2