

SAFETY DATA SHEET

REVISION DATE: 03/05/22
REVISION: 6.0

1. PRODUCT & COMPANY IDENTIFICATION:

1.1 Product Identifiers:

Product (Trade) Name: Eltech 142
Brand: Adhetron
CAS: Mixture

1.2 Relevant identified uses of the substance or mixture and uses advised against:

Identified uses: Ink, coating

1.3 Details of the supplier of the safety data sheet:

Supplier: Pulsar Chem. Industry and Trade Co. Inc.
Address: Gazi mah. Catalli sok. No:33 Ankara
Telephone: 00903122221166
Fax: 00903122229400
E-mail: pulsar@pulsar.com.tr

1.4 Emergency Telephone Number

UZEM: 114

2. HAZARD IDENTIFICATION:

2.1 Classification of substance or mixture:

Classification according to GHS formatting

WARNING!

Flammable Liquids: Category 4 (H227)

2.2 Label Elements:

No pictogram required

Hazard statement(s)

H227: Combustible liquid.

Precautionary Statement(s)

Prevention:

P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P280: Wear eye protection/protective gloves/protective clothing/face protection.

Response:

P370+P378: In case of fire: use dry sand, dry chemical, or alcohol-resistant foam for extinction.

Storage:

P403+P235: Store in a well-ventilated place. Keep cool.

Disposal:

P501: Dispose of contents to appropriate local waste disposal center.

2.3 Other hazards:

None.

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3. COMPOSITION/INFORMATION on INGREDIENTS

3.1 Substances:

MATERIAL	CAS No.	%
Silver complex	7440-22-4	30 – 60
Dipropylene glycol monomethyl ether	34590-94-8	30 – 40
Polymer resin	Proprietary	2 – 10

4. FIRST AID MEASURES:

4.1 Description of first aid measures:

General advice: Seek medical advice

In case of eye contact - Immediately wash eyes with running water for 15 minutes. Get immediate medical attention.

In case of skin contact – Remove contaminated clothing/shoes and wash affected areas with water followed by washing with soap and water. If irritation occurs, get medical attention. Launder contaminated clothing before reuse.

If swallowed - DO NOT INDUCE VOMITING. Dilute with water or milk and call a physician immediately.

Never give fluids or induce vomiting if the victim is unconscious or having convulsions.

If inhaled - Move to fresh air. Aid in breathing, if necessary, and get immediate medical attention.

4.2 Most important symptoms and effects, both acute and delayed:

Target organs: Eyes, skin, respiratory system, liver, kidney, pancreas, spleen, central nervous system

4.3 Indication of any medical attention and special treatment needed:

Adverse eye effects such as conjunctivitis or corneal damage; eye disease. Can cause severe burns, blindness, irritation.

5. FIRE FIGHTING MEASURES:

5.1 Extinguishing Media

Suitable extinguishing media:

Use water fog, alcohol foam, CO₂ or dry chemical extinguishing media.

5.2 Special hazards arising from the substance or mixture:

Carbon oxides, toxic nitrogen oxide gases.

5.3 Advice for firefighters:

Material will not burn unless preheated. Firefighters should not enter confined space without full bunker gear (helmet with face shield, bunkercoats, gloves and rubber boots), including a positive pressure, NIOSH approved, self-contained breathing apparatus.

5.4 Further information:

Not available

6. ACCIDENTAL RELEASE MEASURES:

6.1 Personal precautions, protective equipment, and emergency procedures:

Extinguish all sources of ignition. Wear appropriate clothing, gloves, goggles or glasses. Provide adequate ventilation.

6.2 Environmental Precautions:

Do not discharge into any sewage system or waterway.

6.3 Methods and materials for containment and cleanup:

Absorb with earth, sand, or other inert material and place in suitable containers for disposal.

6.4 Reference to other sections:

For disposal see section 13.

7. HANDLING and STORAGE:

7.1 Precautions for safe handling:

Observe normal standards of industrial hygiene for handling chemicals. Avoid contact with skin and eyes.

Use extreme caution when spraying or aerosolizing this product.

7.2 Conditions for safe storage, including incompatibilities:

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Store in a cool, dry, well ventilated area. Keep containers tightly closed and away from heat, direct sunlight and ignition sources.

7.3 Specific end uses:

Including but not limited to printing, coating, and dispensing operations.

8. EXPOSURE CONTROLS and PERSONAL PROTECTION:

8.1 Control Parameters:

Components with control parameters:

MATERIALS	LIMIT VALUES
*Silver complex	TLV: 0.1 mg/m ³ (as dust)
Dipropylene glycol monomethyl ether	TWA: 100 ppm

"*" Indicates that the material is subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372 et. seq. if present at greater than 1%.

Exposure controls

Appropriate engineering controls

Mechanically exhaust vapors at points of application. Maintain airborne contaminant levels of chemicals below their recommended TLV's or PEL's.

Personal protective

equipment Skin

Protection

Avoid prolonged or repeated contact with skin. Wear impervious gloves such as nitrile, latex, or polychloroprene and other clothing to prevent contact.

Respiratory Protection

For confined areas or areas with poor ventilation, use an approved cartridge type, organic vapor respirator. Use extreme caution when spraying or aerosolizing this product.

Eye Protection

Chemical goggles or safety glasses with side shields

Protective Clothing

Impervious gloves, coveralls, apron, boots as necessary to prevent skin contact.

9. PHYSICAL and CHEMICAL PROPERTIES:

9.1 Information on basic physical and chemical properties:

a) Appearance:	
Form	Paste
Color	Silver
b) Odor	Slight odor
c) Odor Threshold	Not determined
d) pH	Not determined
e) Melting/Freezing point	Not determined
f) Boiling Point	> 190°C (est.)
g) Flash Point	> 740°C (est.)
h) Evaporation Rate	Not determined
i) Flammability (solid, gas)	Not determined
j) Upper/Lower Flammability Limits	Upper: Not determined Lower: Not determined
k) Vapor Pressure @ 20°C	Not determined
l) Vapor Density	Heavier than air
m) Specific Gravity (water=1)	2.07 (calculated)
n) Solubility in Water	Not determined
o) Partition coefficient: n-octanol/water	Not determined
p) Auto-ignition Temperature	Not self-igniting
q) Decomposition Temperature	Not determined
r) Viscosity (25°C)	20,000 – 25,000 cps

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s) Explosive Properties

Not determined

t) Oxidizing Properties

Not determined

u) Volatiles (by % wt.)

< 40

9.2 Other safety information:

No data available on product itself.

10. STABILITY and REACTIVITY:

10.1 Reactivity:

No data available on product itself.

10.2 Chemical Stability:

Stable under normal conditions.

10.3 Possibility of hazardous reactions:

Can react vigorously with strong oxidizing agents, strong Lewis acids or mineral acids, and strong mineral and organic bases

10.4 Conditions to avoid:

Storage in open containers, sources of ignition, high temperatures and direct sunlight.

10.5 Incompatible materials:

Strong oxidizing agents, strong Lewis acids or mineral acids, and strong mineral and organic bases

10.6 Hazardous decomposition products:

Carbon monoxide, aldehydes, acids, and other organic substances can be formed during combustion, thermal, or oxidative decomposition. Reaction with some curing agents may produce considerable heat.

11. TOXICOLOGICAL

INFORMATION: Acute

Toxicity

No data available on product itself.

ATE, mix

LD50, oral = > 5,000 mg/kg

Skin Corrosion/Irritation

No data available on product itself.

Serious Eye Damage/Irritation

No data available on product itself.

Sensitization

No data available on product itself.

Specific Target Organ Toxicity – Single Exposure (STOT – SE)

No data available on product itself.

Specific Target Organ Toxicity – Repeated Exposure (STOT – RE)

No data available on product itself.

Carcinogenicity

No data available on product itself.

ACGIH Classification: Not classified.

IARC Classification: Not classified.

NTP Classification: Not classified.

OSHA Classification: Not classified.

Teratogenicity, Reproductive Toxicity, and Mutagenicity

No data available on product itself.

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Aspiration Hazard

No data available on product itself.

12. ECOLOGICAL INFORMATION:

12.1 Toxicity:

No data available on product itself.

12.2 Persistence and degradability:

No data available on product itself.

12.3 Bioaccumulative potential:

No data available on product itself.

12.4 Mobility in soil:

No data available on product itself.

12.5 Results of PBT and vPvB assessment:

No data available on product itself.

12.6 Other information/effects:

Do not allow discharge into drains and waterways. Avoid ground contamination.

13. DISPOSAL RECOMMENDATIONS:

13.1 Waste treatment methods:

Place in an appropriate disposal facility in compliance with local regulations.

14. TRANSPORT INFORMATION:

14.1 UN number

None

14.2 UN proper shipping name

DOT:

Not regulated for transport

ADR/RID:

Not regulated for transport

IMG:

Not regulated for transport

IATA:

Not regulated for transport

14.3 Transport hazardous class(es)

None

14.4 Packaging group

None

14.5 Environmental hazards

None

14.6 Special precautions for user

None

15. REGULATORY INFORMATION:

This safety datasheet complies with GHS formatting

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and of the Code of Federal Regulations, Part 372.

Component	CAS	Weight %
Silver	7440-22-4	< 60

SARA 311/312 Hazardous Categorization

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No

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Sudden Release of Pressure Hazard No
Reactive Hazard No

State Regulations

California Proposition

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This product contains NO chemical(s) known to the State of California to cause cancer and birth defects or other reproductive harm.

TSCA (Toxic Substance Control Act)

All ingredients listed or exempt.

15.2 Chemical Safety Assessment

No data available on product itself.

16. OTHER INFORMATION:

HMIS Rating: H – 0, F – 2, R – 0

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