

AN ELLSWORTH ADHESIVES COMPANY 🙆

SECTION 1: Identification		
.1. Identification		
Product form	: Mixture	
Product name	: SEC1244 A	
.2. Recommended use and restric	tions on use	
Recommended use	: Silver filled epoxy resin	
Restrictions on use	: Product for industrial use only	
.3. Supplier		
ResinLab, LLC N109 W13300 Ellsworth Drive Germantown, WI 53022 - United States T 1-877-259-1669 msds@resinlab.com - www.resinlab.com		
.4. Emergency telephone number		
Emergency number	: CHEMTREC:1-800-424-9300 (USA); +1 703-527-3887 (International)	
SECTION 2: Hazard(s) identification	tion	
.1. Classification of the substance	or mixture	
GHS US classification		
Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Catego Skin sensitization, Category 1	H315 Causes skin irritation ry 2 H319 Causes serious eye irritation H317 May cause an allergic skin reaction	
HS US labeling Hazard pictograms (GHS US)		
Signal word (GHS US)	: Warning	
Hazard statements (GHS US)	 H315 - Causes skin irritation H317 - May cause an allergic skin reaction H319 - Causes serious eye irritation 	
Precautionary statements (GHS US)	 P261 - Avoid breathing dust/fume/gas/mist/vapors/spray. P264 - Wash hands, forearms and face thoroughly after handling. P272 - Contaminated work clothing must not be allowed out of the workplace. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P302+P352 - If on skin: Wash with plenty of water. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P362+P364 - Take off contaminated clothing and wash it before reuse. P391 - Collect spillage. P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. 	

Version: 1.0

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

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3.1. Substances

Not applicable 3.2. Mixtures

Name	Product identifier	%
Silver	(CAS-No.) 7440-22-4	75 – 90
Epoxy resin	(CAS-No.) 28064-14-4	10 – 30

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures	
4.1. Description of first aid measures	
First-aid measures after inhalation First-aid measures after skin contact	 Remove person to fresh air and keep comfortable for breathing. Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after 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.
First-aid measures after ingestion	: Call a poison center/doctor/physician if you feel unwell.
4.2. Most important symptoms and effects	s (acute and delayed)
Symptoms/effects after skin contact	: Irritation. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Mild eye irritation.
4.3. Immediate medical attention and spec	cial treatment, if necessary
Treat symptomatically.	
SECTION 5: Fire-fighting measures	
5.1. Suitable (and unsuitable) extinguishing	ng media
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
Unsuitable extinguishing media	: Do not use water jet to extinguish.
5.2. Specific hazards arising from the che	mical
Hazardous decomposition products in case of fire	: Toxic fumes may be released, Carbon oxides (CO, CO2), Metal oxides, Aldehydes
5.3. Special protective equipment and pre	cautions for fire-fighters
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
SECTION 6: Accidental release measu	ures
6.1. Personal precautions, protective equi	ipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray.
6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for containmen	t and cleaning up
Methods for cleaning up	: Take up liquid spill into absorbent material.
Other information	: Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections	

For further information refer to section 13.

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SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	 Ensure good ventilation of the work station, ventilate curing ovens to prevent emissions in the workplace. Avoid contact with skin and eyes. Wear personal protective equipment. Avoid breathing dust/fume/gas/mist/vapors/spray.
Hygiene measures	: Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, includi	ing any incompatibilities
Storage conditions	: Store in a well-ventilated place. Keep cool.

SECTIC	N 8: Exposure controls/personal protection	
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8.1. Control parameters

Silver (7440-22-4)		
ACGIH	Local name	Silver
ACGIH	ACGIH OEL TWA	0.1 mg/m ³ 0.1 mg/m ³
ACGIH	Remark (ACGIH)	TLV® Basis: Argyria
ACGIH	Regulatory reference	ACGIH 2022
OSHA	OSHA PEL (TWA) [1]	0.01 mg/m ³
OSHA	Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
Epoxy resin (28064-14-4)		
Not applicable		

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station, ventilate curing ovens to prevent emissions in the workplace.

Environmental exposure controls

: Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Protective gloves

Eye protection:

Safety glasses with side shields

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties		
9.1.	Information on basic physical and che	mical properties
Physic	al state	: Liquid
Color		: Silver

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Odor	: characteristic
Odor threshold	: No data available
рН	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: > 150 °C
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability	: Not applicable.
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Relative density	: No data available
Density	: 4.09 g/cm ³
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
VOC content	No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

Acids. Bases. Strong oxidizing agents. Amines.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Refer to section 5.2 for hazardous decomposition products during combustion.

SECTION 11: Toxicological info	prmation
1.1. Information on toxicological e	offects
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Silver (7440-22-4)	
LD50 oral rat	> 2000 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Powder, Oral, 14 day(s))
LD50 dermal rat	> 2000 mg/kg (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Nanoform, Dermal, 15 day(s))
LC50 Inhalation - Rat	> 5.16 mg/l air (OECD 436: Acute inhalation toxicity-acute toxic class method, 4 h, Rat, Male / female, Experimental value, Powder, Inhalation (dust), 14 day(s))
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.

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Respiratory or skin sensitization	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Silver (7440-22-4)	
LOAEL (oral,rat,90 days)	125 mg/kg body weight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
Aspiration hazard	: Not classified
Symptoms/effects after skin contact	: Irritation. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Mild eye irritation.

SECTION 12: Ecological information		
12.1. Toxicity		
Ecology - general :	The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.	
Silver (7440-22-4)		
LC50 - Fish [1]	4.7 μg/l Test organisms (species): Pimephales promelas	
LC50 - Fish [2]	89.4 µg/l Test organisms (species): Pimephales promelas	
Epoxy resin (28064-14-4)		
LC50 - Fish [1]	5.7 mg/l	
EC50 - Other aquatic organisms [1]	3.5 mg/l	
12.2. Persistence and degradability		
Silver (7440-22-4)		
Persistence and degradability	Biodegradability: not applicable.	
Chemical oxygen demand (COD)	Not applicable	
ThOD	Not applicable	
BOD (% of ThOD)	Not applicable	
Epoxy resin (28064-14-4)		
Persistence and degradability	Biodegradability in soil: no data available.	

12.3. Bioaccumulative potential

Silver (7440-22-4)		
BCF - Fish [1]	70 (30 day(s), Cyprinus carpio, Fresh water, Literature study)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500). Not bioaccumulative.	
Epoxy resin (28064-14-4)		
Bioaccumulative potential	No bioaccumulation data available.	
12.4. Mobility in soil		
Silver (7440-22-4)		
Ecology - soil	No (test)data on mobility of the substance available. Adsorbs into the soil.	

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations			
13.1.	Disposal methods		
Waste treatment methods		: Dispose of contents/container in accordance with licensed collector's sorting instructions.	

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SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not applicable

Transportation of Dangerous Goods

Not regulated

Transport by sea

Transport document description (IMDG)

UN-No. (IMDG)

Class (IMDG)

Marine pollutant

Packing group (IMDG)

Limited quantities (IMDG)

- UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Silver ; Epoxy resin), 9, III
 3082
 - ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. Silver ; Epoxy resin
- : 9 Miscellaneous dangerous substances and articles
- : III substances presenting low danger
- : 5 L
- : Yes

Air transport

Transport document description (IATA)	: UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Silver ; Epoxy resin), 9, III
UN-No. (IATA)	: 3082
Proper Shipping Name (IATA)	: Environmentally hazardous substance, liquid, n.o.s.
	Silver ; Epoxy resin
Class (IATA)	: 9 - Miscellaneous Dangerous Substances and Articles

: III - Low danger

SECTION 15: Regulatory information

15.1. US Federal regulations

Packing group (IATA)

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

Silver	CAS-No. 7440-22-4	75 – 90%			
Silver (7440-22-4)					
Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313					
CERCLA RQ	1000 lb				
Epoxy resin (28064-14-4)					
Listed on the United States TSCA (Toxic Substances Control Act) inventory					
EPA TSCA Regulatory Flag	XU - XU - indicates a substance exempt from reported Rule, (40 CFR 711).	orting under the Chemical Data Reporting			

15.2. International regulations

CANADA

Silver (7440-22-4)	
Listed on the Canadian DSL (Domestic Substances List)	
Epoxy resin (28064-14-4)	
Listed on the Canadian DSL (Domestic Substances List)	

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EU-Regulations

Contains no REACH candidate substance

National regulations No additional information available

15.3. US State regulations

WARNING: This product can expose you to Epichlorohydrin, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Component	State or local regulations
Silver(7440-22-4)	U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

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Full text of H-phrases:

H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

SDS US - ResinLab

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.