

SILVER 2,4-PENTANEDIONATE, 95%

Safety Data Sheet AKS725 Date of issue: 02/23/2015 Vers

Version: 1.0

SECTION 1: Identification of the substance	/mixture and of the company/unde	rtaking	
1.1. Product identifier			
Product form : Subs	tance		
Physical state : Solid			
Substance name : SILV	ER 2,4-PENTANEDIONATE, 95%		
Product code : AKS7			
Formula : C5H7	/AgO2		
	ER ACETYLACETONATE; (PENTANE-2,4-DI	ONATO-O	,O')SILVER
	AL COMPOUND		· ,
1.2. Relevant identified uses of the substance or	mixture and uses advised against		
	nical intermediate esearch use only		
1.3. Details of the supplier of the safety data she	et		
GELEST, INC. 11 East Steel Road Morrisville, PA 19067 USA T 215-547-1015 - F 215-547-2484 - (M-F): 8:00 AM - 5:30 info@gelest.com - www.gelest.com	PM EST		
1.4. Emergency telephone number			
	MTREC: 1-800-424-9300 (USA); +1 703-527-3	3887 (Inter	national)
SECTION 2: Hazards identification			
2.1. Classification of the substance or mixture			
Classification (GHS-US)			
Not classified			
2.2. Label elements			
GHS-US labeling			
No labeling applicable			
2.3. Other hazards			
No additional information available			
2.4. Unknown acute toxicity (GHS-US)			
No data available			
SECTION 3: Composition/information on in	gredients		
3.1. Substance			
Substance type : Mono-constituent			
ame : SILVER 2,4-PENTANEDIONATE, 95%			
CAS No : 1552	5-64-1		
EC no : 239-568-1			
Name	Product identifier	%	Classification (GHS-US)
Silver 2,4-Pentanedionate	(CAS No) 15525-64-1	> 95	Not classified

3.2. Mixture Not applicable

SECTION 4: First aid measures			
4.1. Description of first aid measures			
First-aid measures general	 Remove contaminated clothing and shoes. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). If possible show this sheet; if not available show packaging or label. 		
First-aid measures after inhalation	 Remove victim to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, seek medical advice. 		
First-aid measures after skin contact	: Wash with plenty of soap and	l water.	
02/23/2015	EN (English US)	SDS ID: AKS725	Page 1

SILVER 2,4-PENTANEDIONATE, 95% Safety Data Sheet

First-aid measures after eye contact	: Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if
	present and easy to do. Continue rinsing. Get medical advice/attention.
First-aid measures after ingestion	: Never give anything by mouth to an unconscious person. Get medical advice/attention.
4.2. Most important symptoms and eff	cts, both acute and delayed
Symptoms/injuries after inhalation	: May cause irritation to the respiratory tract.
Symptoms/injuries after skin contact	: May cause skin irritation. May produce argyria (a slate-gray or bluish discoloration of the skin and deep tissues due to the deposit of insoluble aluminate of silver).
Symptoms/injuries after eye contact	: May cause eye irritation.
Symptoms/injuries after ingestion	: May be harmful if swallowed.
4.3. Indication of any immediate medie	Il attention and special treatment needed
No additional information available	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Water spray. Foam. Carbon dioxide. Dry chemical.
5.2. Special hazards arising from the s	bstance or mixture
Fire hazard	: Irritating fumes and organic acid vapors may develop when material is exposed to elevated
	temperatures or open flame.
5.3. Advice for firefighters	
Firefighting instructions	: Use water spray to cool exposed surfaces. Exercise caution when fighting any chemical fire.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Avoid contact with skin and eyes. Do not breathe dust.
	Avoid contact with skin and eyes. Do not bleathe dust.
SECTION 6: Accidental release me	sures
6.1. Personal precautions, protective	uipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency responders	
Protective equipment	: Equip cleanup crew with proper protection.
6.2. Environmental precautions Notify authorities if liquid enters sewers or pub	
6.3. Methods and material for contain	
Methods for cleaning up	: Sweep or shovel spills into appropriate container for disposal.
6.4. Reference to other sections	
See Heading 8. Exposure controls and person	protection.
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Avoid contact with skin and eyes. Do not breathe dust. Provide local exhaust or general room ventilation to minimize exposure to dust.
Hygiene measures	: Wash hands and other exposed areas with mild soap and water before eating, drinking or
	smoking and when leaving work. Wash contaminated clothing before reuse.
7.2. Conditions for safe storage, inclu	ng any incompatibilities
Storage conditions	: Keep container tightly closed.
Incompatible materials	: Air.
Storage area	: Store in a well-ventilated place. Store away from heat.
7.3. Specific end use(s)	
No additional information available	
SECTION 8: Exposure controls/per	onal protection
8.1. Control parameters	
No additional information available	
8.2. Exposure controls	
Appropriate engineering controls	: Provide local exhaust or general room ventilation.
Personal protective equipment	: Avoid all unnecessary exposure. Emergency eye wash fountains and safety showers should be
· · · · · · · · · · · · · · · · · · ·	available in the immediate vicinity of any potential exposure.
Hand protection	: Neoprene or nitrile rubber gloves.
02/23/2015	EN (English US) SDS ID: AKS725 2/5

SILVER 2,4-PENTANEDIONATE, 95%

Safety Data Sheet

Relative evaporation rate (butyl acetate=1)

Melting point

Boiling point

Flash point

Freezing point

Vapor pressure

Relative density

Viscosity, kinematic

Viscosity, dynamic

Explosive properties

Oxidizing properties

VOC content

Solubility

Log Pow

Log Kow

Auto-ignition temperature

Decomposition temperature Flammability (solid, gas)

Relative vapor density at 20 °C

Eye protection	: Chemical goggles. Contact lenses should not be worn.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. NIOSH-certified dust and mist (orange cartridge) respirator.
SECTION 9: Physical and c	hemical properties
9.1. Information on basic phy	vsical and chemical properties
Physical state	: Solid
Appearance	: Powder.
Molecular mass	: 206.98 g/mol
Color	: Brown.
Odor	: No data available
Odor threshold	: No data available
Refractive index	: No data available
рН	: No data available

: No data available

: No data available

No data availableNo data available

No data availableNo data available

: No data available

:

2

:

: < 3 %

No data available

No data available

No data available

Insoluble in water.

No data available No data available

No data available

No data available

No data available

: No data available

EN (English US)

: 82 - 86 °C decomposes

Explosive lin	its : No data available		
9.2. Ot	ner information		
No additiona	information available		
SECTION	10: Stability and reactivity		
10.1. Re	activity		
No additiona	information available		
10.2. Cł	10.2. Chemical stability		
Light sensitiv	e, decomposes slowly at temperatures above 70°C.		
10.3. Po	10.3. Possibility of hazardous reactions		
Material dec	mposes slowly in contact with air by reaction with water, and oxygen.		
10.4. Co	nditions to avoid		
No additiona	information available		
10.5. In	ompatible materials		
Air.			
10.6. Ha	zardous decomposition products		
Organic acid vapors. Silver oxide fumes.			
SECTION 11: Toxicological information			
11.1. Int	ormation on toxicological effects		
Acute toxicity	: Not classified		
Skin corrosio	n/irritation : Not classified		
Serious eye	lamage/irritation : Not classified		

SILVER 2,4-PENTANEDIONATE, 95% Safety Data Sheet

Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Symptoms/injuries after inhalation	: May cause irritation to the respiratory tract.
Symptoms/injuries after skin contact	: May cause skin irritation. May produce argyria (a slate-gray or bluish discoloration of the skin and deep tissues due to the deposit of insoluble aluminate of silver).
Symptoms/injuries after eye contact	: May cause eye irritation.
Symptoms/injuries after ingestion	: May be harmful if swallowed.
SECTION 12: Ecological information	1
12.1. Toxicity	
No additional information available	
12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
No additional information available	
12.4. Mobility in soil	
No additional information available	
12.5. Other adverse effects	
Effect on ozone layer	: No additional information available
Effect on the global warming	: No known ecological damage caused by this product.
SECTION 13: Disposal consideratio	ns
13.1. Waste treatment methods	
Waste disposal recommendations	: All material should be retained for precious metal recovery. Dispose in a safe manner in
	accordance with local/national regulations.
Ecology - waste materials	: Avoid release to the environment.
SECTION 14: Transport information	
14.1. UN number	
Not regulated for transport.	
14.2. UN proper shipping name	
Not applicable	
14.3. Additional information	
Other information	: No supplementary information available.
Transport by sea	
No additional information available	
Air transport	
No additional information available	
SECTION 15: Regulatory informatio	n
15.1. US Federal regulations	
SILVER 2,4-PENTANEDIONATE, 95% (1552)	5-64-1)
TSCA Exemption/Exclusion	CAUTION: This material is supplied for research and development purposes subject to the
	R&D exemption under TSCA, 40 CFR 720.36, and must meet the requirements of the
	exemption, including supervision by a "technically qualified individual" as defined by 40 CFR
	720.3(ee). The use of this material for "commercial purposes" as defined by 40 CFR 720.3(r) is not permitted in the United States.
Silver 2 4 Deptendienate (45525 64.4)	
Silver 2,4-Pentanedionate (15525-64-1) Not listed on the United States TSCA (Toxic S	ubstances Control Act) inventory
THOU HOLE OF THE OFFICE STATES TOCA (TOXIC S	

15.2. International regulations

SILVER 2,4-PENTANEDIONATE, 95%

Safety Data Sheet

Silver 2,4-Pentanedionate (15525-64-1)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

15.3. US State regulations

SILVER 2,4-PENTANEDIONATE, 95%(15525-64-1)				
U.S California - Proposition 65 - Carcinogens List No		No		
U.S California - Proposition 65 - Developmental Toxicity		No		
U.S California - Proposition Toxicity - Female	n 65 - Reproductive	No		
U.S California - Proposition Toxicity - Male	n 65 - Reproductive	No		
Silver 2,4-Pentanedionate (15525-64-1)				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)
No	No	No	No	

SECTION 16: Other information : Abbreviations: ND: Not Determined, No Data; NA: Not Applicable; LD: Lethal Dose; LC: Lethal Abbreviations and acronyms Concentration; ATE: Acute Toxicity Estimates; H: hour; °: °C unless otherwise stated; mm: millimeters Hg, torr; PEL: permissible exposure level; TWA: time weighted average; TLV: threshold limit value; TG: Test Guideline; NIOSH: National Institute for Occupational Safety and Health; IARC: International Agency for Research on Cancer; NTP: National Toxicology Program; HMIS: Hazardous Material Information System; CAS No.: Chemcial Abstract Service Registration Number; EC No.: European Commission Registration Number; EC Index No.: European Commission Index Number; OECD: The Organisation for Economic Co-operation and Development. **HMIS III Rating** Health 2 Moderate Hazard - Temporary or minor injury may occur Flammability 2 Moderate Hazard ÷ 1 Slight Hazard Physical Prepared by safety and environmental affairs. Date of issue: 02/23/2015 Version: 1.0

SDS US (GHS HazCom 2012) - Custom

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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