

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 09/13/2017 Version: 5.0

SECTION 1: Identification			
1.1. Identification			
Product form	: Mixture		
Trade name	: SILVABRITE 100®		
Product code	: A0000090		
1.2. Recommended use and restri			
Recommended use	: Alloys for brazing/soldering and other	metallurgical processes	
1.3. Supplier	-,		
Lucas-Milhaupt, Inc. 5656 South Pennsylvania Ave. Cudahy, WI 53110 - USA T (414)-769-6000 LM SDSinfo@lucasmilhaupt.com - www.I	_ucasmilhaupt.com		
1.4. Emergency telephone number	r		
Emergency number	: CHEMTREC within the USA and Cana CHEMTREC outside the USA and Can		
SECTION 2: Hazard(s) identifica	ation		
2.1. Classification of the substance	e or mixture		
GHS-US classification			
Respiratory sensitisation, H334	May cause allergy or asthma s	symptoms or breathing difficulties if inha	aled.
Category 1B			
Full text of H statements : see section 16			
2.2. GHS Label elements, includin	g precautionary statements		
GHS-US labelling			
Hazard pictograms (GHS-US)			
Signal word (GHS-US)	: Danger		
Hazard statements (GHS-US)	: H334 - May cause allergy or asthma s	wmptoms or breathing difficulties if inha	led.
Precautionary statements (GHS-US)	: P261 - Avoid breathing dust/fume/gas/ P284 - [In case of inadequate ventilation P304+P341 - If inhaled: If breathing is comfortable for breathing P342+P311 - If experiencing respirato	mist/vapours/spray. on] wear respiratory protection. difficult, remove person to fresh air and ry symptoms: Call a poison center/doct to hazardous or special waste collectior	l keep or
2.3. Other hazards which do not re	esult in classification		
No additional information available			
2.4. Unknown acute toxicity (GHS	US)		
Not applicable			
SECTION 3: Composition/inforr	mation on ingredients		
3.1. Substances			
ivot applicable			
Not applicable 3.2. Mixtures Name		Product identifier	%
3.2. Mixtures		CAS-No.) 7440-31-5	93.63 -
3.2. Mixtures Name			

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

SECTION	V 4: First-aid me	asures	
	escription of first ai		
First-aid me	easures general	: Call	a poison center or a doctor if you feel unwell.
First-aid me	easures after inhalatio	n : Rem	ove person to fresh air and keep comfortable for breathing.
First-aid me	easures after skin con	tact : Was	h skin with plenty of water.
First-aid me	easures after eye cont	act : Rins	e eyes with water as a precaution.
First-aid me	easures after ingestior	n : Call	a poison center or a doctor if you feel unwell. Rinse mouth.
4.2. N	lost important symp	toms and effects (acute	e and delaved)
	al information availab		
		tention and special trea	atment if necessary
Treat symp		tention and special trea	attient, it necessary
	-		
	N 5: Fire-fighting		
		ble) extinguishing med	
	tinguishing media		bowder. Water spray. Foam.
Unsuitable	extinguishing media	: Wate	۶۲.
5.2. S	pecific hazards arisi	ng from the chemical	
Reactivity		: The	product is non-reactive under normal conditions of use, storage and transport.
5.3. S	pecial protective eq	uipment and precaution	ns for fire-fighters
Protection of	during firefighting		ot attempt to take action without suitable protective equipment. Self-contained breathing
		appa	aratus. Complete protective clothing.
SECTION	N 6: Accidental r	elease measures	
			and emergency procedures
	or non-emergency p		
	procedures		ilate spillage area.
Lineigeney	procoduroo		
	or emergency respo		
Protective e	equipment		ot attempt to take action without suitable protective equipment. For further information to section 8: "Exposure controls/personal protection".
	nvironmental preca		
Avoid relea	se to the environment	•	
6.3. N	lethods and materia	for containment and c	leaning up
For contain	ment	: Colle	ect spillage.
Methods for	r cleaning up		hanically recover the product.
Other inform	nation	: Disp	ose of materials or solid residues at an authorized site.
6.4. R	eference to other se	ctions	
For further i	information refer to se	ction 13.	
SECTION	N 7: Handling an	d storage	
	recautions for safe I		
	s for safe handling	, i i i i i i i i i i i i i i i i i i i	are good ventilation of the work station. Wear personal protective equipment.
Hygiene me	Ũ		ot eat, drink or smoke when using this product. Always wash hands after handling the
		prod	uct.
7.2. C	onditions for safe st	orage, including any ir	ncompatibilities
Storage cor	nditions	: Store	e in a well-ventilated place. Keep cool.
SECTION	N 8: Exposure co	ontrols/personal pr	rotection
8.1. C	control parameters		
Silver (74	40-22-4)		
ACGIH		ACGIH TWA (mg/m ³)	0.1 mg/m ³ (dust and fume)
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Silver (7440-22-4)		
OSHA	OSHA PEL (TWA) (mg/m ³)	0.01 mg/m ³
IDLH	US IDLH (mg/m ³)	10 mg/m ³ (dust)
NIOSH	NIOSH REL (TWA) (mg/m ³)	0.01 mg/m ³ (dust)
Copper (7440-50-8)		
ACGIH	ACGIH TWA (mg/m ³)	0.2 mg/m ³ (fume)
OSHA	OSHA PEL (TWA) (mg/m ³)	0.1 mg/m ³ (fume) 1 mg/m ³ (dust and mist)
IDLH	US IDLH (mg/m ³)	100 mg/m ³ (dust, fume and mist)
NIOSH	NIOSH REL (TWA) (mg/m ³)	1 mg/m ³ (dust and mist) 0.1 mg/m ³ (fume)
Tin (7440-31-5)		
ACGIH	ACGIH TWA (mg/m ³)	2 mg/m ³
IDLH	US IDLH (mg/m ³)	100 mg/m ³
NIOSH	NIOSH REL (TWA) (mg/m ³)	2 mg/m ³

8.2. Appropriate engineering controls

: Ensure good ventilation of the work station.

Appropriate engineering controls Environmental exposure controls

: Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

SECTION 9: Physical and chemical properties

9.1. Information on basic physical an	d chemical properties
Physical state	: Solid
Appearance	: To be filled by Steve.
Colour	: No data available
Odour	: No data available
Odour threshold	: No data available
рН	: No data available
Melting point	: 660 °F
Freezing point	: Not applicable
Boiling point	: No data available
Flash point	: Not applicable
Relative evaporation rate (butylacetate=1)	: No data available
Flammability (solid, gas)	: Non flammable.
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: Not applicable
Solubility	: No data available

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Log Pow	: No data available
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: No data available
Explosive limits	: Not applicable
Explosive properties	: No data available
Oxidising properties	: No data available

9.2. Other information

No additional information available

No additional information available	
SECTION 10: Stability and reactivity	y
I0.1. Reactivity	
The product is non-reactive under normal condi	tions 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 co	onditions of use.
10.4. Conditions to avoid	
None under recommended storage and handling	g conditions (see section 7).
10.5. Incompatible materials	
No additional information available	
10.6. Hazardous decomposition products	S
	azardous decomposition products should not be produced.
SECTION 11: Toxicological informa	tion
I1.1. Information on toxicological effects	
Acute toxicity	: Not classified
Silver (7440-22-4) LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 2000 mg/kg
Tin (7440-31-5) LD50 oral rat	700 mg/kg
ATE US (oral)	700 mg/kg bodyweight
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
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

SECTI	ON 12: Ecological information	
12.1.	Toxicity	
Ecology	- general	: Very toxic to aquatic life.
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Silver (7440-22-4)	
LC50 fish 1	0.00155 - 0.00293 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 Daphnia 1	0.00024 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
LC50 fish 2	0.0062 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])
Copper (7440-50-8)	
LC50 fish 1	0.0068 - 0.0156 mg/l (Exposure time: 96 h - Species: Pimephales promelas)
EC50 Daphnia 1	0.03 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
LC50 fish 2	< 0.3 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])

12.2. Persistence and degradability

No additional information available

12.3.	Bioaccumulative potential
No addit	onal information available

12.4. Mobility in soil

No additional information available

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.
SECTION 14: Transport information	
SECTION 14. Transport information	
Department of Transportation (DOT)	
In accordance with DOT	
Not applicable	
Not applicable	
Transportation of Dangerous Goods	
Not applicable	

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

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 no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 μm	
Copper (7440-50-8)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313		
CERCLA RQ	5000 lb no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 μm	

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Tin (7440-31-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

Silver (7440-22-4)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

Copper (7440-50-8)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

Tin (7440-31-5)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

15.3. US State regulations

Silver (7440-22-4)
U.S Massachusetts - Right To Know List U.S New Jersey - Right to Know Hazardous Substance List U.S Pennsylvania - RTK (Right to Know) - Environmental Hazard List U.S Pennsylvania - RTK (Right to Know) List
Copper (7440-50-8)
U.S Massachusetts - Right To Know List
U.S New Jersey - Right to Know Hazardous Substance List U.S Pennsylvania - RTK (Right to Know) - Environmental Hazard List
U.S Pennsylvania - RTK (Right to Know) List
Tin (7440-31-5)
U.S Massachusetts - Right To Know List U.S New Jersey - Right to Know Hazardous Substance List U.S Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
NFPA health hazard	: 1 - Materials that, under emergency conditions, can cause significant irritation.
NFPA fire hazard	: 1 - Materials that must be preheated before ignition can occur.
NFPA reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.
Hazard Rating	· ·
Health	: 1 Slight Hazard - Irritation or minor reversible injury possible
	* - Chronic (long-term) health effects may result from repeated overexposure
Flammability	: 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)
Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.
Personal protection	: B
	B - Safety glasses, Gloves

SDS US (GHS HazCom 2012)

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