

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 08/09/2017 Version: 5.0

SECTION 1: Identification		
1.1. Identification		
Product form	: Mixture	
Trade name	: 63AG/27CU/10IN VTG	
Product code	: A00000300	
1.2. Recommended use and restric No additional information available	ctions on use	
1.3. Supplier		
Lucas-Milhaupt, Inc.		
5656 South Pennsylvania Ave.		
Cudahy, WI 53110 - USA		
T (414)-769-6000		
Contact:SDS Contact		
1.4. Emergency telephone number	·	
Emergency number	: CHEMTREC within the USA and Canada: 1-800-424-9300	
	CHEMTREC outside the USA and Canada +1 701-741-5970	
SECTION 2: Hazard(s) identifica	tion	
2.1. Classification of the substance		
GHS US classification		
Specific target organ toxicity — Repeated e	exposure, Category 2 H373 May cause damage to organs through prolonged or repeate	ed exposure.
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Specific target organ toxicity — Repeated e Full text of H statements : see section 16		ed exposure.
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Specific target organ toxicity — Repeated e Full text of H statements : see section 16 2.2. GHS Label elements, including GHS US labelling		ed exposure.
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### Full text of hazard classes and H-statements : see section 16

SECTIO	ON 4: First-aid measures	
4.1.	Description of first aid measures	
		Call a poison center or a doctor if you feel unwell.
	-	Remove person to fresh air and keep comfortable for breathing.
First-aid r		Wash skin with plenty of water.
First-aid r		Rinse eyes with water as a precaution.
	-	Call a poison center or a doctor if you feel unwell. Rinse mouth.
4.2.	Most important symptoms and effects	(acute and delayed)
	onal information available	
4.3.	Immediate medical attention and spec	ial treatment if necessary
	nptomatically.	ar reament, in necessary
	ON 5: Fire-fighting measures	
5.1.	Suitable (and unsuitable) extinguishin	-
	• •	Dry powder. Water spray. Foam.
Unsuitabl	e extinguishing media :	Water.
5.2.	Specific hazards arising from the cher	nical
No additio	onal information available	
5.3.	Special protective equipment and prec	autions for fire-fighters
Protection	n during firefighting :	Do not attempt to take action without suitable protective equipment. Self-contained breathing
		apparatus. Complete protective clothing.
SECTIO	ON 6: Accidental release measu	res
6.1.	Personal precautions, protective equip	oment and emergency procedures
6.1.1.	For non-emergency personnel	
_		Ventilate spillage area. Do not breathe dust/fume/gas/mist/vapours/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 processions	
6.2.	Environmental precautions ease to the environment.	
6.3.	Methods and material for containment	
For conta		Collect spillage.
		Mechanically recover the product.
Other info	irmation :	Dispose of materials or solid residues at an authorized site.
6.4.	Reference to other sections	
For furthe	r information refer to section 13.	
SECTIO	ON 7: Handling and storage	
7.1.	Precautions for safe handling	
Precautio	ns for safe handling :	Ensure good ventilation of the work station. Wear personal protective equipment. Do not breathe dust/fume/gas/mist/vapours/spray.
Hygiene r	neasures :	Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2.	Conditions for safe storage, including	any incompatibilities
Storage c	onditions :	Store in a well-ventilated place. Keep cool.
	ON 8: Exposure controls/persor	al protection
8.1.	Control parameters	

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Copper (7440-50-8)				
ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	0.2 mg/m <sup>3</sup> (fume)		
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup> (fume) 1 mg/m <sup>3</sup> (dust and mist)		
IDLH	US IDLH (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup> (dust, fume and mist)		
NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup> (dust and mist) 0.1 mg/m <sup>3</sup> (fume)		
Indium (7440-74-6)	Indium (7440-74-6)			
ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup>		
NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup>		
Silver (7440-22-4)				
ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup> (dust and fume)		
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	0.01 mg/m <sup>3</sup>		
IDLH	US IDLH (mg/m <sup>3</sup> )	10 mg/m³ (dust)		
NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	0.01 mg/m <sup>3</sup> (dust)		

#### 8.2. Appropriate engineering controls

Appropriate engineering controls

: Ensure good ventilation of the work station.

: Avoid release to the environment.

#### Environmental exposure controls 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 and	chemical properties
Physical state	: Solid
Appearance	: white to light yellow metals, various forms.
Colour	: No data available
Odour	: No data available
Odour threshold	: No data available
pH	: No data available
Melting point	: No data available
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	: No data available
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

SECT	FION 10: Stability and reactivity
10.1.	Reactivity
The pro	oduct 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 dan	ngerous reactions known under normal conditions of use.
10.4.	Conditions to avoid
None u	inder recommended storage and handling conditions (see section 7).
10.5.	Incompatible materials
م د: دا د	Alkai aatta matala

Acids. Alkai earth metals.

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information	
11.1. Information on toxicological e	fects
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

Indium (7440-74-6)		
LD50 oral rat	4200 mg/kg	
ATE US (oral)	4200 mg/kg bodyweight	
Silver (7440-22-4)		
LD50 oral rat	> 5000 mg/kg	
LD50 dermal rat	> 2000 mg/kg	
Skin corrosion/irritation	: Not classified	
Serious eye damage/irritation	: Not classified	
Respiratory or skin sensitisation	: Not classified	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	
Reproductive toxicity	: Not classified	
STOT-single exposure	: Not classified	
STOT-repeated exposure	: May cause damage to organs through prolonged or repeated exposure.	
Aspiration hazard	: Not classified	
Viscosity, kinematic	: No data available	

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SECTION 12: Ecological information		
2.1. Toxicity		
Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. Very toxic to aquatic life.	
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])	
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])	

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

No additional information available

SECTION 13: Disposal considerati	ons
13.1. Disposal methods	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
SECTION 14: Transport informatio	n
Department of Transportation (DOT)	
In accordance with DOT	

Not applicable

#### Transportation of Dangerous Goods

Not applicable

### Transport by sea

Not applicable

### Air transport

Not applicable

### **SECTION 15: Regulatory information**

### 15.1. US Federal regulations

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 $\mu m$

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Indium (7440-74-6)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
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 $\mu m$	

### **15.2. International regulations**

Copper (7440-50-8)		
Listed on the TCSI (Taiwan Chemical Substance Inventory)		
Indium (7440-74-6)		
Listed on the TCSI (Taiwan Chemical Substance Inventory)		
Silver (7440-22-4)		
Listed on the TCSI (Taiwan Chemical Substance Inventory)		

### 15.3. US State regulations

Component	State or local regulations
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
Indium(7440-74-6)	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
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

### **SECTION 16: Other information**

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Full text of H-statements:

H373	May cause damage to organs through prolonged or repeated exposure.
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#### SDS US (GHS HazCom 2012)

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