

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 : 90 AG/10 PD VTG		
Product code : A00000304		
1.2. Recommended use and restrictions on use		
No additional information available		
1.3. Supplier		
Lucas-Milhaupt, Inc. 5656 South Pennsylvania Ave. Cudahy, WI 53110 - USA T (414)-769-6000 LM SDSinfo@lucasmilhaupt.com www.Lucasmilhaupt.com		
1.4. Emergency telephone number		
Emergency number : CHEMTREC within the USA and CHEMTREC outside the USA and		
SECTION 2: Hazard(s) identification		
2.1. Classification of the substance or mixture		
GHS US classification		
Not classified		
2.2. GHS Label elements, including precautionary statements		
GHS US labelling		
No labelling applicable		
2.3. Other hazards which do not result in classification		
No additional information available		
2.4. Unknown acute toxicity (GHS US)		
Not applicable		
SECTION 3: Composition/information on ingredients		
3.1. Substances		
Not applicable		
3.2. Mixtures		
Name	Product identifier	%
Silver	(CAS-No.) 7440-22-4	89.5 - 90.5
Palladium	(CAS-No.) 7440-05-3	9.5 - 10.5
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 general : Call a poison center or a doctor if	you feel unwell.	
First-aid measures after inhalation : Remove person to fresh air and k	-	
First-aid measures after skin contact : Wash skin with plenty of water.		

: Rinse eyes with water as a precaution. First-aid measures after eye contact First-aid measures after ingestion

: Call a poison center or a doctor if you feel unwell. Rinse mouth.

4.2. Most important symptoms and effects (acute and delayed)

No additional information available

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

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SECTION 5: Fire-fighting measures			
	able) extinguishing media		
Suitable extinguishing media			
Unsuitable extinguishing media	: Water.		
5.2. Specific hazards aris	ing from the chemical		
Reactivity		on-reactive under normal conditions of use, storage and transport.	
	uipment and precautions for fire-fi	-	
Protection during firefighting		take action without suitable protective equipment. Self-contained breathing lete protective clothing.	
SECTION 6: Accidental	elease measures		
6.1. Personal precautions	s, protective equipment and emerg	ency procedures	
6.1.1. For non-emergency	personnel		
Emergency procedures	: Ventilate spillage	area.	
6.1.2. For emergency respo	onders		
Protective equipment		take action without suitable protective equipment. For further information "Exposure controls/personal protection".	
6.2. Environmental preca	utions		
Avoid release to the environment	t.		
6.3. Methods and materia	I for containment and cleaning up		
For containment : Collect spillage.			
Methods for cleaning up	: Mechanically rec	over the product.	
Other information	: Dispose of mater	ials or solid residues at an authorized site.	
6.4. Reference to other se	ections		
For further information refer to se	ection 13.		
SECTION 7: Handling an	ld storage		
7.1. Precautions for safe			
Precautions for safe handling	: Ensure good ven	tilation of the work station. Wear personal protective equipment.	
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.		or smoke when using this product. Always wash hands after handling the	
7.2. Conditions for safe s	torage, including any incompatibil	ities	
Storage conditions			
SECTION 8: Exposure c	ontrols/personal protection		
8.1. Control parameters			
Palladium (7440-05-3)			
Not applicable			
Silver (7440-22-4)			
ACGIH	ACGIH TWA (mg/m ³)	0.1 mg/m ³ (dust and fume)	
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)	
8.2. Appropriate enginee	ring controls		
Appropriate engineering controls	•	tilation of the work station.	
Environmental exposure controls	=		
8.3. Individual protection	measures/Personal protective equ	ipment	

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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	nronortion
9.1. Information on basic physical and	
Physical state	: Solid
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
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	
SECTION 10: Stability and reactivity	
10.1. 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 handlin	g conditions (see section 7).
10.5. Incompatible materials	
No additional information available	
10.6. Hazardous decomposition product	S
	zardous decomposition products should not be produced.

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

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	: Not classified
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available

SECTION 12: Ecological information	
12.1. 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.

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])

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

No additional information available

SECTION 13: Disposal consider	rations
13.1. Disposal methods	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
SECTION 14: Transport informa	ation
Department of Transportation (DOT)	
In accordance with DOT	

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Transportation of Dangerous Goods

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

Palladium (7440-05-3)	
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 μm

15.2. International regulations

Palladium (7440-05-3)	
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
Palladium(7440-05-3)	
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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SDS US (GHS HazCom 2012)

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