

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 05/16/2017 Version: 5.0

SECTION 1: Identification			
1.1. Identification			
Product form : Mixture			
Trade name	: 40AG/60CU		
Product code	: A00000284		
.2. Recommended use and res	trictions on use		
No additional information available			
.3. Supplier			
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I.4. Emergency telephone num	ber		
Emergency number	: CHEMTREC within the USA and CHEMTREC outside the USA a		
SECTION 2: Hazard(s) identif	cation		
.1. Classification of the substa	nce or mixture		
GHS-US classification			
Not classified			
2.2. GHS Label elements, includ	ling precautionary statements		
GHS-US labelling	ing precautionary statements		
Vo labelling applicable			
- · · ·			
2.3. Other hazards which do no	result in classification		
lo additional information available			
2.4. Unknown acute toxicity (GF	IS US)		
Not applicable			
SECTION 3: Composition/info	rmation on ingredients		
.1. Substances			
lot applicable			
.2. Mixtures			
Name		Product identifier	%
Copper		(CAS-No.) 7440-50-8	59 - 61
Silver		(CAS-No.) 7440-22-4	39 - 41
Full text of hazard classes and H-stater	nents : see section 16		
SECTION 4: First-aid measure			
I.1. Description of first aid mea			
First-aid measures general	: Call a poison center or a doctor	if you feel unwell.	
irst-aid measures after inhalation	: Remove person to fresh air and		
First aid measures after skip contact	: Wash skip with planty of water		

First-aid measures after skin contact : Wash skin with plenty of water.

- First-aid measures after eye contact First-aid measures after ingestion
- : 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)

No additional information available

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

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SECTION 5: Fire-fi	ghting measures		
5.1. Suitable (and	unsuitable) extinguishing	g media	
Suitable extinguishing media		Dry powder. Water spray. Foam.	
Unsuitable extinguishing	media :	Water.	
5.2. Specific haza	rds arising from the chen	nical	
Reactivity	:	The product is non-reactive under nor	mal conditions of use, storage and transport.
5.3. Special prote	ctive equipment and prec	autions for fire-fighters	
Protection during firefigh	iting :	•	suitable protective equipment. Self-contained breathing
		apparatus. Complete protective clothin	ng.
SECTION 6: Accid	ental release measu	res	
6.1. Personal pre	cautions, protective equip	oment and emergency procedures	
6.1.1. For non-eme	rgency personnel		
Emergency procedures		Ventilate spillage area.	
6.1.2. For emergen	w reconcidere		
Protective equipment	cy responders	Do not attempt to take action without	suitable protective equipment. For further information
		refer to section 8: "Exposure controls/	
6.2. Environment	al precautions		
Avoid release to the env			
6.3. Methods and	material for containment	and cleaning up	
For containment		Collect spillage.	
Methods for cleaning up		Mechanically recover the product.	
Other information	:	Dispose of materials or solid residues	at an authorized site.
6.4. Reference to	other sections		
For further information re	efer to section 13.		
SECTION 7: Hand	ing and storage		
	or safe handling		
Precautions for safe har	•	Ensure good ventilation of the work st	ation. Wear personal protective equipment.
Hygiene measures	:	Do not eat, drink or smoke when using	g this product. Always wash hands after handling the
		product.	
7.2. Conditions for	or safe storage, including	any incompatibilities	
Storage conditions	:	Store locked up. Store in a well-ventila	ated place. Keep cool.
SECTION 8: Exposure controls/personal protection			
8.1. Control parar			
Copper (7440-50-8) ACGIH	ACGIH TWA (mg	/m ³)	0.2 mg/m ³ (fume)
		,	3 ()
OSHA	OSHA PEL (TWA) (mg/m ³)	0.1 mg/m³ (fume) 1 mg/m³ (dust and mist)
IDLH	US IDLH (mg/m ³)		100 mg/m ³ (dust, fume and mist)
NIOSH	NIOSH REL (TW)		1 mg/m ³ (dust and mist)
		·) (·····)	0.1 mg/m ³ (fume)
Silver (7440-22-4)			
ACGIH	ACGIH TWA (mg	/m³)	0.1 mg/m ³ (dust and fume)
OSHA	OSHA PEL (TWA) (mg/m³)	0.01 mg/m ³
IDLH	US IDLH (mg/m ³)	, , ,	10 mg/m ³ (dust)
NIOSH	NIOSH REL (TW)		0.01 mg/m ³ (dust)
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8.2. Appropriate engineering controls

Appropriate engineering controls Environmental exposure controls Ensure good ventilation of the work station.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 chemica	al properties
9.1. Information on basic physical an	
Physical state	: Solid
Appearance	: White to light yellow metallic luster, various forms.
Colour	: No data available
Odour	: No data available
Odour threshold	: No data available
рН	: 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	: 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

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.

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10.4. Conditions to avoid

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

10.5. Incompatible materials

Oxidizing agent. Strong acids. Strong bases.

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 effects

Acute toxi	icity	
ACULE LOX		

Silver (7440-22-4) LD50 oral rat LD50 dermal rat

> 5000 mg/kg
> 2000 mg/kg
Not classified

: Not classified

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
Specific target organ toxicity (single exposure)	:	Not classified
Specific target organ toxicity (repeated		Not classified
exposure)	•	Not blabbined
Aspiration hazard	:	Not classified

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.
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])

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

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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

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 μm		
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

Copper (7440-50-8)	
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

	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	
Ļ	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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NFPA health hazard	: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.
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	: 2 Moderate Hazard - Temporary or minor injury may occur
	* - 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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