

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name	Safety-Silv® 20, Safety-Silv® 25, Safety-Silv® 30, Safety-Silv® 35, Safety-Silv® 40,
	Safety-Silv® 45, Safety-Silv® 50
Version #	01
Issue date	28-February-2014
Revision date	-
Supersedes date	-
CAS #	-
Product type	High Silver Brazing Alloys containing Cu, Ag and Zn
Product use	Metal brazing.
Manufacturer information	
Manufacturer/Supplier	Harris Products Group
manaraotaron/oupprior	4501 Quality Place
	Mason, Ohio 45040 US
	custservmason@jwharris.com
Telephone number	513-754-2000
Emergency Telephone Numbers	1-888-609-1762 (US, Canada, Mexico only)
	Please quote 333988
2. Hazards Identification	
Physical state	Solid.
-	Wire and rods.
Appearance	WARNING
Emergency overview	WARNING
	Toxic: danger of serious damage to health by prolonged exposure through inhalation. May cause eye, skin and respiratory tract irritation.
OSHA regulatory status	This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).
Potential health effects	
Routes of exposure	Inhalation. Skin contact. Eye contact. Ingestion.
Eyes	Fumes from heated material may cause eye irritation. Dust may irritate the eyes. Exposure to hot material may cause thermal burns.
Skin	Dust may irritate skin. May cause allergic skin reaction. Exposure to hot material may cause thermal burns.
Inhalation	May cause respiratory tract irritation. Lung damage and possible pulmonary edema can result from dust exposure. Inhalation of fumes may cause a flu-like illness called metal fume fever.
Ingestion	Ingestion of this product may cause nausea, vomiting and diarrhea. Copper poisoning can result in hemolytic anemia and kidney, liver and spleen damage.
Target organs	Respiratory system Eyes. Skin. Kidneys.
Chronic effects	Chronic inhalation of fumes or dust may cause irritation or other respiratory conditions (e.g.,
	bronchitis). May cause lung damage. Prolonged overexposure to fluorides may increase fluoride content of bones and teeth, and may result in fluorosis, and brittleness of bones. Absorbed fluoride can cause metabolic imbalances with irregular heartbeat, nausea, dizziness, vomiting and seizures. Ingestion of silver may cause a permanently benign bluish gray discoloration to the skin (argyria). Prolonged exposure to silver may cause damage to the nasal septum. Excessive Zinc intake has been associated with copper deficiency anemia. Individuals with Wilson's disease are at an increased risk of copper poisoning. Refer to Section 11 Toxicological Information for more details.

Contact may cause irritation and redness. Dust may irritate respiratory system. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Typical metal fume fever begins four to twelve hours after sufficient exposure to freshly formed fumes. The first symptoms are a metallic taste, dryness and irritation of the throat. Cough and shortness of breath may occur along with headache, fatigue, nausea, vomiting, muscle and joint pain, fever and chills. The syndrome runs its course in 24-48 hours.

Potential environmental effects Alloys in massive forms present a limited hazard for the environment.

3. Composition / Information on Ingredients

Components		CAS #	Percent
Copper		7440-50-8	25 - 50
Silver		7440-22-4	20 - 50
Zinc		7440-66-6	10 - 40
Coating(s)		CAS #	Percent
Potassium fluoroborate		14075-53-7	30 - 50
Boric acid		10043-35-3	10 - 35
Methacrylate polymer		Proprietary	1 - 5
Water		7732-18-5	Balance
4. First Aid Measures	All concentrations are in percent by weight u percent by volume.	niness ingredietit is a gas. Ga	
First aid procedures			
Eye contact	Rinse immediately with plenty of water for at medical attention if irritation develops or personal section of the section of t		any contact lenses. Get
Skin contact	Remove contaminated clothes and rinse skin medical attention if irritation develops and per		t least 15 minutes. Get
Inhalation	Remove person from contaminated area to f physician if symptoms develop or persist.	resh air. Apply artificial respi	ration if needed. Call a
Ingestion	Do NOT induce vomiting. Immediately rinse by mouth to an unconscious person. Get me		water. Never give anythin
Notes to physician	Treat symptomatically. Symptoms may be de		

General advice

5. Fire Fighting Measures

Flammable properties	Solid metal is not flammable; however, finely divided metallic dust or powder may form an explosive mixture with air. Do not use water on molten metal: Explosion hazard could result.
Extinguishing media	
Suitable extinguishing media	Extinguish with foam, carbon dioxide or dry powder.
Unsuitable extinguishing media	Do not use water or halogenated extinguishing media.
Protection of firefighters	
Specific hazards arising from the chemical	Fire or high temperatures create: Metal oxides.
Fire fighting equipment/instructions	Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Move containers from fire area if you can do it without risk.

Show this safety data sheet to the doctor in attendance.

6. Accidental Release Measures

Personal precautions	Keep unnecessary personnel away. Avoid inhalation of dust from the spilled material. Wear protective clothing as described in Section 8 of this MSDS. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not contaminate water.

Methods for containment	Stop leak if you can do so without risk. Local authorities should be advised if significant spillages cannot be contained.
Methods for cleaning up	Collect for salvage or disposal. Put material in suitable, covered, labeled containers. Avoid the generation of dusts during clean-up. For waste disposal, see Section 13 of the MSDS.
Other information	Clean up in accordance with all applicable regulations.
7. Handling and Storage	
Handling	Avoid inhalation of dust and fumes. Use process enclosures, local exhaust ventilation, or other engineering controls to control sources of dust and fumes. Keep formation of airborne dusts to a minimum. Avoid contact with skin and eyes. Wear appropriate personal protective equipment (See Section 8). Do not get this material on clothing. Do not eat, drink or smoke when using the product. Wash thoroughly after handling. Avoid release to the environment.
Storage	Store in tightly closed original container in a dry, cool and well-ventilated place. Store in a closed container away from incompatible materials. Keep away from food, drink and animal feedingstuffs.

8. Exposure Controls / Personal Protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

Components	Туре	Value	Form
Copper (CAS 7440-50-8)	TWA	1 mg/m3	Dust and mist.
		0.2 mg/m3	Fume.
Silver (CAS 7440-22-4)	TWA	0.1 mg/m3	Dust and fume.
Coating(s)	Туре	Value	Form
Boric acid (CAS 10043-35-3)	STEL	6 mg/m3	Inhalable fraction.
	TWA	2 mg/m3	Inhalable fraction.
Fluorides (CAS 16984-48-8)	TWA	2.5 mg/m3	
Decomposition	Туре	Value	Form
Zinc oxide (CAS 1314-13-2)	STEL	10 mg/m3	Respirable fraction.
	TWA	2 mg/m3	Respirable fraction.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	Form
Copper (CAS 7440-50-8)	PEL	1 mg/m3	Dust and mist.
		0.1 mg/m3	Fume.
Silver (CAS 7440-22-4)	PEL	0.01 mg/m3	
Coating(s)	Туре	Value	
Fluorides (CAS 16984-48-8)	PEL	2.5 mg/m3	
Decomposition	Туре	Value	Form
Zinc oxide (CAS 1314-13-2)	PEL	5 mg/m3	Respirable fraction.
		5 mg/m3	Fume.
		15 mg/m3	Total dust.
US. OSHA Table Z-2 (29 CFR 1910)	.1000)		
Coating(s)	Туре	Value	Form
Fluorides (CAS 16984-48-8)	TWA	2.5 mg/m3	Dust.
Canada. Alberta OELs (Occupation	nal Health & Safety Code, Scl	hedule 1, Table 2)	
Components	Туре	Value	Form
Copper (CAS 7440-50-8)	TWA	1 mg/m3	Dust and mist.
		0.2 mg/m3	Fume.
Silver (CAS 7440-22-4)	TWA	0.1 mg/m3	
Coating(s)	Туре	Value	
Fluorides (CAS 16984-48-8)	TWA	2.5 mg/m3	
Decomposition	Туре	Value	Form
Zinc oxide (CAS 1314-13-2)	STEL	10 mg/m3	Respirable.
	TWA	2 mg/m3	Respirable.

Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

Components	Туре	Value	Form
Copper (CAS 7440-50-8)	TWA	1 mg/m3	Dust and mist.
		0.2 mg/m3	Fume.
Silver (CAS 7440-22-4)	STEL	0.03 mg/m3	
	TWA	0.01 mg/m3	
Coating(s)	Туре	Value	Form
Boric acid (CAS 10043-35-3)	STEL	6 mg/m3	Inhalable
	TWA	2 mg/m3	Inhalable
Fluorides (CAS 16984-48-8)	TWA	2.5 mg/m3	
Decomposition	Туре	Value	Form
Zinc oxide (CAS 1314-13-2)	STEL	10 mg/m3	Respirable.
	TWA	2 mg/m3	Respirable.

Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act)

Components	Туре	Value	Form
Copper (CAS 7440-50-8)	TWA	1 mg/m3	Dust and mist.
		0.2 mg/m3	Fume.
Silver (CAS 7440-22-4)	TWA	0.1 mg/m3	Dust and fume.
Coating(s)	Туре	Value	Form
Boric acid (CAS 10043-35-3)	STEL	6 mg/m3	Inhalable fraction.
	TWA	2 mg/m3	Inhalable fraction.
Fluorides (CAS 16984-48-8)	TWA	2.5 mg/m3	
Decomposition	Туре	Value	Form
Zinc oxide (CAS 1314-13-2)	STEL	10 mg/m3	Respirable fraction.
	TWA	2 mg/m3	Respirable fraction.

Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

Components	Туре	Value	Form
Copper (CAS 7440-50-8)	TWA	0.2 mg/m3	Fume.
Silver (CAS 7440-22-4)	TWA	0.1 mg/m3	Dust and fume.
Coating(s)	Туре	Value	Form
Boric acid (CAS 10043-35-3)	STEL	6 mg/m3	Inhalable fraction.
	TWA	2 mg/m3	Inhalable fraction.
Fluorides (CAS 16984-48-8)	TWA	2.5 mg/m3	
Decomposition	Туре	Value	Form
Zinc oxide (CAS 1314-13-2)	STEL	10 mg/m3	Respirable fraction.
	TWA	2 mg/m3	Respirable fraction.

Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment)

Components	Туре	Value	Form
Copper (CAS 7440-50-8)	TWA	1 mg/m3	Dust and mist.
		0.2 mg/m3	Fume.
Silver (CAS 7440-22-4)	TWA	0.1 mg/m3	
Welding fume (CAS -)	TWA	5 mg/m3	Welding fume.
Coating(s)	Туре	Value	
Fluorides (CAS 16984-48-8)	TWA	2.5 mg/m3	
Decomposition	Туре	Value	Form
Zinc oxide (CAS 1314-13-2)	STEL	10 mg/m3	Fume.
	TWA	5 mg/m3	Fume.
		10 mg/m3	Total dust.

Mexico. Occupational Exposure Limit Values

Components	Туре	Value	Form
Copper (CAS 7440-50-8)	STEL	2 mg/m3	Dust and mist.
		2 mg/m3	Fume.
	TWA	1 mg/m3	Dust and mist.
		0.2 mg/m3	Fume.
Silver (CAS 7440-22-4)	TWA	0.1 mg/m3	
Welding fume (CAS -)	TWA	5 mg/m3	Welding fume.
Coating(s)	Туре	Value	
Fluorides (CAS 16984-48-8)	TWA	2.5 mg/m3	
Decomposition	Туре	Value	Form
Zinc oxide (CAS 1314-13-2)	STEL	10 mg/m3	Fume.
	TWA	5 mg/m3	Fume.
		10 mg/m3	Dust.
sonal protective equipment	recommended.		
Eye / face protection	Wear safety glasses with side shield with brazing, it is recommended that appropriate shade number (per ANS	safety glasses, goggles, or face	e-shield with filter lens of
Skin protection	Protective clothing is recommended. wear protective clothing that protects Welding and Cutting").		
Respiratory protection	Use a respirator when local exhaust or ventilation is not adequate to keep exposures below the TLV. In a confined space a supplied respirator may be required. Selection and use of respiratory protective equipment should be in accordance with OSHA General Industry Standard 29 CFR 1910.134; or in Canada with CSA Standard Z94.4. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits.		
General hygiene considerations	Always observe good personal hygie and before eating, drinking, and/or s	moking. Routinely wash work o	

9. Physical & Chemical Properties

-	-
Appearance	Wire and rods.
Physical state	Solid.
Form	Solid.
Color	Not available.
Odor	Odorless.
Odor threshold	Not available.
рН	Not applicable.
Vapor pressure	Not applicable.
Vapor density	Not applicable.
Boiling point	Not available.
Melting point/Freezing point	Not applicable.
Solubility (water)	Insoluble.
Specific gravity	Not available.
Flash point	Not available.
Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	Not available.
Auto-ignition temperature	Not available.

10. Chemical Stability & Reactivity Information

Chemical stability

Material is stable under normal conditions.

equipment to remove contaminants.

Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents. Strong acids. Strong bases. Acetylene. Ammonia. Hydrogen peroxide (H2O2). Chlorine. Bromine, iodine, turpentine, magnesium metal. Hydrogen sulfide. Ammonium nitrate.
Hazardous decomposition products	Toxic metal oxides are emitted when heated above the melting point. Coated rods may also release boric anhydride, fluoride compounds and hydrogen fluorides. Methacrylate polymer decomposes when heated and will release flammable vapors which irritate eyes and the respiratory system. They comprise mainly n-butyl methacrylate (CAS 97-88-1).
Possibility of hazardous reactions	Hazardous polymerization does not occur.

11. Toxicological Information

Toxicological data		
Components	Species	Test Results
Silver (CAS 7440-22-4)		
Acute		
Dermal		
LD50	Rat	> 2000 mg/kg
Oral		"
LD50	Rat	> 5000 mg/kg
Coating(s)	Species	Test Results
Boric acid (CAS 10043-35-3)		
Acute		
Dermal	Data	0000
LD50	Rabbit	> 2000 mg/kg
Oral	Det	2000 mg/kg
LD50	Rat	2660 mg/kg
Sensitization	This product is not expected to cause skin sensitization.	
Acute effects	When heated, the vapors/fumes given off may cause respiratory tract irritation. High concentrations of freshly formed fumes/dusts of metal oxides can produce symptoms of metal fume fever. Exposure to extremely high levels of fluorides can cause abdominal pain, diarrhea, muscular weakness, and convulsions. In extreme cases it can cause loss of consciousness and death.	
Local effects	Elevated temperatures or mechanical action may form dust and fumes which may be irritating to the eye, mucous membranes and respiratory tract.	
Chronic effects	Ingestion of silver may cause a permanently benign bluish gray discoloration to the skin (argyria). Repeated exposure to fluorides may cause excessive calcification of the bone and calcification of ligaments of the ribs, pelvis and spinal column. Absorbed fluoride can cause metabolic imbalances with irregular heartbeat, nausea, dizziness, vomiting and seizures.	
Carcinogenicity	This product is not considered to be a carcinogen b	y IARC, ACGIH, NTP, or OSHA.
ACGIH Carcinogens		
Boric acid (CAS 10043-35 Fluorides (CAS 16984-48-	8) A4 Not classifiable a	as a human carcinogen. as a human carcinogen.
IARC Monographs. Overall E		
Fluorides (CAS 16984-48-		to carcinogenicity to humans.
Epidemiology	Based on epidemiological studies, pre-existing pulm prolonged exposure to high concentrations of metal	
Mutagenicity	No data available.	
Reproductive effects	This product is not reported to cause reproductive effects in humans. Clinical studies on test animals exposed to relatively high doses of the Boric Acid and Copper components of this product indicate adverse reproductive effects.	
Further information	No other specific acute or chronic health impact not	ed.

12. Ecological Information

Ecotoxicological data Components		Species	Test Results
Copper (CAS 7440-50-8)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia obtusa)	0.0076 - 0.026 mg/l, 48 hours
Silver (CAS 7440-22-4)			
Aquatic			
Fish	LC50	Fathead minnow (Pimephales promelas)	0.0019 - 0.003 mg/l, 96 hours
Zinc (CAS 7440-66-6)			
Aquatic			
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	0.41 mg/l, 96 hours
Coating(s)		Species	Test Results
Boric acid (CAS 10043-35-3)			
Aquatic			
Fish	LC50	Razorback sucker (Xyrauchen texanus)	> 100 mg/l, 96 hours
Ecotoxicity	Alloys in massive forms present a limited hazard for the environment.		
Environmental effects	Significant environmental persistence and bioaccumulation can be expected.		
Persistence and degradability	-		
Bioaccumulation / Accumulation	The product contains potentially bioaccumulating substances.		
Mobility in environmental media	Alloys in massive forms are not mobile in the environment.		
13. Disposal Consideration	ons		
Waste codes	D011: Waste	Silver	
Disposal instructions	Dispose in ac	Dispose in accordance with all applicable regulations.	
Waste from residues / unused	Scrapped material should be sent for refining to recover precious metal content. Solid metal and		

Disposal instructions	Dispose in accordance with an applicable regulations.
Waste from residues / unused products	Scrapped material should be sent for refining to recover precious metal content. Solid metal and alloys in the form of particles may be reactive. Its hazardous characteristics, including fire and explosion, should be determined prior to disposal.
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport Information

DOT

Not regulated as a hazardous material by DOT.

ΙΑΤΑ

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

TDG

Not regulated as dangerous goods.

15. Regulatory Information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.	No	reau	lated.
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Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List Not regulated.

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration

Copper (CAS 7440-50-8) 1.0 % Silver (CAS 7440-22-4) 1.0 %		
Silver (CAS 7440-22-4) 1.0 %	Copper (CAS 7440-50-8)	1.0 %
()	Silver (CAS 7440-22-4)	1.0 %

Zinc (CAS 7440-66-6)	1.0 %	
US EPCRA (SARA Title III) S	Section 313 - Toxic Chemical: Listed substance	
Copper (CAS 7440-50-8)		
Silver (CAS 7440-22-4) Zinc (CAS 7440-66-6)	Listed. Listed.	
, , ,		
CERCLA (Superfund) reportable	e quantity (IDS) (40 CFR 302.4)	
Copper: 5000 Silver: 1000 Zinc: 1000		
Superfund Amendments and Re	eauthorization Act of 1986 (SARA)	
Hazard categories	Immediate Hazard - Yes Delayed Hazard - Yes	
	Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No	
SARA 302 Extremely hazard	-	
Not listed.		
SARA 311/312 Hazardous chemical	Yes	
Drug Enforcement	Not controlled	
Administration (DEA) (21 CFR 1308.11-15)		
Canadian regulations	This product has been classified in accordance with the hazard crit contains all the information required by the CPR.	eria of the CPR and the MSDS
WHMIS status	Controlled	
WHMIS classification	D2A - Other Toxic Effects-VERY TOXIC	
WHMIS labeling		
Inventory status		
Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes
	omplies with the inventory requirements administered by the governing country e components of the product are not listed or exempt from listing on the invent	
State regulations	This product does not contain a chemical known to the State of Cal defects or other reproductive harm.	ifornia to cause cancer, birth
US - California Hazardous S	Substances (Director's): Listed substance	
Copper (CAS 7440-50-8)		
Fluorides (CAS 16984-48	3-8) Listed.	
Fluorides (CAS 16984-48 Potassium fluoroborate (B-8) Listed. CAS 14075-53-7) Listed.	
Fluorides (CAS 16984-48	3-8) Listed.	
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Fluorides (CAS 16984-48 Potassium fluoroborate (C Silver (CAS 7440-22-4) Zinc (CAS 7440-66-6) US - California Proposition (Not listed. US. Massachusetts RTK - So Copper (CAS 7440-50-8) Silver (CAS 7440-22-4) Zinc (CAS 7440-66-6) US. New Jersey Worker and Boric acid (CAS 10043-33 Copper (CAS 7440-50-8) Fluorides (CAS 16984-48	3-8) Listed. CAS 14075-53-7) Listed. Listed. Listed. 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance substance List Listed. Listed.	ce
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US. Pennsylvania Worker and Community Right-to-Know Law

Copper (CAS 7440-50-8) Fluorides (CAS 16984-48-8) Potassium fluoroborate (CAS 14075-53-7) Silver (CAS 7440-22-4) Zinc (CAS 7440-66-6)

Mexico regulations

This safety data sheet was prepared in accordance with the Official Mexican Standard (NOM-018-STPS-2000).

16. Other Information

Further information HMIS® ratings

NFPA Ratings

HMIS® is a registered trade and service mark of the NPCA. Health: 2* Flammability: 0 Physical hazard: 0

Disclaimer

The information in the sheet was written based on the best knowledge and experience currently available.