MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name Phosphorus/Copper Brazing Filler Metal

Version # 01

Issue date 05-November-2013

Revision date Supersedes date

CAS# Mixture

Stay Silv® 0, Stay Silv® 0 LP, Stay Silv® 0 HP, Stay Silv® 0 AM, Stay Silv® 0 HHP, Stay Silv® 0 **Product names**

XHP, LCuP6, LCuP7, LCuP8, Harris Phoson®, Brayson®, Stay Sliv® 01T

Product use Metal brazing.

Manufacturer information

Manufacturer/Supplier Harris Products Group

> 4501 Quality Place Mason, Ohio 45040 US salesinfo@jwharris.com

513-754-2000 Telephone number

Emergency Telephone

Numbers

1-866-519-4752 (US, Canada, Mexico only)

(+) 1-760-476-3962 Please quote 333895

2. Hazards Identification

Physical state Solid.

Appearance Metallic-copper wire and rods.

Emergency overview May cause eye, skin and respiratory tract irritation.

OSHA regulatory status When used for its intended purposes, this material is not classified as hazardous in accordance

with OSHA 29 CFR 1910.1200.

Potential health effects

Routes of exposure Inhalation. Skin contact. Eye contact. Ingestion.

Eyes May cause eve irritation.

Skin Contact may cause irritation and redness. Prolonged skin contact may cause dermatitis. Contact

with molten material may cause thermal burns.

Inhalation Irritating to the nose, throat, and respiratory tract. Overexposure to Copper fumes may produce

metal fume fever. Symptoms of metal fume fever resemble the flu and include sweating, fever,

headache, chills, muscle aches, nausea, vomiting, weakness, and tiredness.

Ingestion 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 damage to the liver and kidneys. Phosphorus is toxic and may produce

poisoning if taken by mouth.

Refer to Section 11 Toxicological Information for more details.

Signs and symptoms Contact may cause irritation and redness. Dust may irritate respiratory system. Symptoms of

overexposure may be headache, dizziness, tiredness, nausea and vomiting. During brazing

operations, the most significant route of overexposure is via inhalation of fumes.

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

3. Composition / Information on Ingredients

Components	CAS#	Percent	
Phosphorus	7723-14-0	6 - 8	_
Copper	7440-50-8	Balance	_

Phosphorus/Copper Brazing Filler Metal 903373 Version #: 01 Revision date: -Issue date: 05-November-2013

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Composition comments

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First Aid Measures

First aid procedures

Eye contact Rinse immediately with plenty of water for at least 15 minutes. Remove any contact lenses. Get

medical attention if irritation develops or persists.

Skin contact Remove contaminated clothes and rinse skin thoroughly with water for at least 15 minutes. Get

medical attention if irritation develops and persists.

Inhalation Remove person from contaminated area to fresh air. Apply artificial respiration if needed. Call a

physician if symptoms develop or persist.

Ingestion Do NOT induce vomiting. Immediately rinse mouth and drink a cupful of water. Never give anything

by mouth to an unconscious person. Get medical attention immediately.

Notes to physician Treat symptomatically.

General advice Show this safety data sheet to the doctor in attendance.

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 jet as an extinguisher, as this will spread the fire.

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.

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

Methods for containment

Prevent further leakage or spillage if safe to do so. Do not contaminate water.

Stop leak if you can do so without risk. Local authorities should be advised if significant spillages

cannot be contained.

Methods for cleaning up Large Spills: Sweep up and place into a proper container for disposal. Avoid the generation of

dusts during clean-up.

Small Spills: Wipe up spilled material and place in a suitable container for disposal. For waste

disposal, see Section 13 of the MSDS.

Other information Clean up in accordance with all applicable regulations.

7. Handling and Storage

Handling Keep formation of airborne dusts to a minimum. Provide appropriate exhaust ventilation at places

> where dust is formed. Avoid inhalation of dust and fumes. 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.

US. ACGIH Threshold Limit Values

Components	Туре	Value	Form
Phosphorus (CAS 7723-14-0)	TWA	0.1 mg/m3	
US. OSHA Table Z-1 Limits for Ai	r 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.
Phosphorus (CAS 7723-14-0)	PEL	0.1 mg/m3	
Canada. Alberta OELs (Occupatio	onal Health & Safety Code, Sch	nedule 1, Table 2)	
Components	Туре	Value	Form
Copper (CAS 7440-50-8)	TWA	1 mg/m3	Dust and mist.
		0.2 mg/m3	Fume.
Phosphorus (CAS 7723-14-0)	TWA	0.1 mg/m3	
Canada. British Columbia OELs.		s for Chemical Substances, O	ccupational Health and
Safety Regulation 296/97, as ame	nded)		
Components	Туре	Value	Form
Copper (CAS 7440-50-8)	TWA	1 mg/m3	Dust and mist.
		0.2 mg/m3	Fume.
Phosphorus (CAS 7723-14-0)	TWA	0.1 mg/m3	
Canada. Manitoba OELs (Reg. 21	7/2006, The Workplace Safety	And Health Act)	
Canada. Manitoba OELs (Reg. 21	•	•	Form
Canada. Manitoba OELs (Reg. 21 Components	Туре	Value	Form
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Phosphorus/Copper Brazing Filler Metal

CPH MSDS NA

Engineering controls Provide adequate ventilation. Observe Occupational Exposure Limits and minimize the risk of

inhalation of dust. Shower, hand and eye washing facilities near the workplace are recommended.

Personal protective equipment

Eye / face protection Wear safety glasses with side shields (or goggles). When these products are used in conjunction

with brazing, it is recommended that safety glasses, goggles, or face-shield with filter lens of appropriate shade number (per ANSI Z49.1-1988, "Safety in Welding and Cutting") be worn.

Skin protection Chemical resistant clothing is recommended. When these products are used in conjunction with

brazing, it is recommended that safety glasses, goggles, or face-shield with filter lens of appropriate shade number (per ANSI Z49.1-1988, "Safety in Welding and Cutting") be worn.

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 hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical & Chemical Properties

Appearance Metallic-copper wire and rods.

Physical stateSolid.FormSolid.

Color Not available.

Odor None.

Odor threshold Not available.

PH Not available.

Vapor pressure Not available.

Vapor density Not available.

Boiling point Not available.

Melting point/Freezing point1310 °F (710 °C)Solubility (water)Not available.Specific gravity8.94 (H2O=1)Flash pointNot 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.

Conditions to avoid Extreme temperatures. Contact with incompatible materials.

Incompatible materials Strong oxidizing agents. Strong acids. Strong bases. Halogens. Acid chlorides.

Hazardous decomposition

products

Thermal decomposition may produce copper, phosphorous and a variety of metal oxides.

Possibility of hazardous

reactions

Will not occur.

11. Toxicological Information

Sensitization Rare cases of allergic contact dermatitis have been reported in people working with copper dust.

Acute effects High concentrations of freshly formed fumes/dusts of metal oxides can produce symptoms of

metal fume fever. When heated, the vapors/fumes given off may cause respiratory tract irritation.

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 Prolonged exposure may cause chronic effects.

Phosphorus/Copper Brazing Filler Metal

CPH MSDS NA

Carcinogenicity Not classifiable as to carcinogenicity to humans.

EpidemiologyNo data available.MutagenicityNot classified.Reproductive effectsNot classified.

Further information No other specific acute or chronic health impact noted.

12. Ecological Information

Ecotoxicological data

Components

Components		opecies	rest ivesuits	
Copper (CAS 7440-50-8)				
Aquatic				
Crustacea	EC50	Water flea (Daphnia obtusa)	0.0076 - 0.026 mg/l, 48 hours	
Phosphorus (CAS 7723-14-	0)			
Aquatic				
Crustacea	EC50	Water flea (Daphnia magna)	0.025 - 0.037 mg/l, 48 hours	
Fish	LC50	Bluegill (Lepomis macrochirus)	0.002 - 0.006 mg/l, 96 hours	
Ecotoxicity	Alloys in	massive forms present a limited hazard for	the environment.	
Environmental offects	Significan	Significant environmental persistence and bioaccumulation can be expected		

Environmental effects Significant environmental persistence and bioaccumulation can be expected.

Snaciae

Aquatic toxicity May cause long lasting harmful effects to aquatic life.

Persistence and degradability The product is not biodegradable.

Bioaccumulation / Accumulation

The product contains potentially bioaccumulating substances.

Mobility in environmental

media

Alloys in massive forms are not mobile in the environment.

13. Disposal Considerations

Disposal instructions Dispose in accordance with all 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

Test Results

explosion, should be determined prior to disposal.

14. Transport Information

DOT

Not regulated as a hazardous material by DOT.

IATA

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 not known to be 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.

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Phosphorus (CAS 7723-14-0)

US EPCRA (SARA Title III) Section 302 - Extremely Hazardous Spill: Reportable quantity

Phosphorus (CAS 7723-14-0)

US EPCRA (SARA Title III) Section 302 - Extremely Hazardous Substance: Threshold Planning Quantity

Phosphorus (CAS 7723-14-0) 100 lbs

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

Copper (CAS 7440-50-8) 1.0 %

Phosphorus/Copper Brazing Filler Metal 903373 Version #: 01 Revision date: - Issue date: 05-November-2013 Phosphorus (CAS 7723-14-0) 1.0 %

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

Copper (CAS 7440-50-8) Listed. Phosphorus (CAS 7723-14-0) Listed.

CERCLA (Superfund) reportable quantity (lbs) (40 CFR 302.4)

Phosphorus: 1 Copper: 5000

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

Not controlled

Section 302 extremely N

hazardous substance (40 CFR 355, Appendix A)

SARA 311/312 Hazardous No

chemical
Drug Enforcement

chemical

Administration (DEA) (21 CFR

1308.11-15)

Canadian regulations This product has been classified in accordance with the hazard criteria of the CPR and the MSDS

contains all the information required by the CPR.

WHMIS status Non-controlled

Inventory status

Country(s) or regionInventory nameOn inventory (yes/no)*CanadaDomestic Substances List (DSL)YesCanadaNon-Domestic Substances List (NDSL)NoUnited States & Puerto RicoToxic Substances Control Act (TSCA) InventoryYes

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

State regulations

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

US - California Hazardous Substances (Director's): Listed substance

Copper (CAS 7440-50-8) Listed. Phosphorus (CAS 7723-14-0) Listed.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Not listed.

US - New Jersey RTK - Substances: Listed substance

Copper (CAS 7440-50-8) Listed. Phosphorus (CAS 7723-14-0) Listed.

US - Pennsylvania RTK - Hazardous Substances: All compounds of this substance are considered environmental hazards

Copper (CAS 7440-50-8) LISTED

US. Massachusetts RTK - Substance List

Copper (CAS 7440-50-8) Listed. Phosphorus (CAS 7723-14-0) Listed.

US. New Jersey Worker and Community Right-to-Know Act

Copper (CAS 7440-50-8) 500 lbs Phosphorus (CAS 7723-14-0) 100 lbs

US. Pennsylvania RTK - Hazardous Substances

Copper (CAS 7440-50-8) Listed. Phosphorus (CAS 7723-14-0) Listed.

Phosphorus/Copper Brazing Filler Metal CPH MSDS NA

^{*}A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

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® is a registered trade and service mark of the NPCA.

HMIS® ratings Health: 1

Flammability: 0 Physical hazard: 0

NFPA Ratings



Disclaimer

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