

Section 1: Product and Supplier Information

Product Name	Silver Copper Phosphorus Brazing Alloys (see section 16 for alloy listing)
Product code	See section 16 for product codes
Recommended Use	Metal joining applications
Manufacturer	Aspen Pumps Group, Apex Way, Hailsham, East Sussex BN27 3WA
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Section 2: Hazards Identification
Most Important Hazards and Classification
Classification according to Regulation (EC) No. 1272/2008 (CLP Classification)


GHS07

H335-May cause respiratory irritation

Carcinogen None known.

Mutagenic None known.

Toxic for Reproduction None known.

Toxic None known.

Dangerous for the Environment None known.

Specific Hazards

The general hazards related to this product are due the potential for thermal burns in its use as a brazing alloy or from inhalation of metal and metal oxide fumes. However, under normal conditions occupational exposure levels are not likely to be exceeded. The phosphorus content of these alloys is completely combined with the copper and does not represent a specific hazard in itself.

Excessive exposure to copper oxide fumes evolved during severe overheating may result in metal fume fever. Symptoms are similar to those for influenza and often appear after a latent period of up to 10 hours. They typically disappear after 24 hours rest.

Section 3: Composition

Chemical Name	CAS Number	EC Number	Label/Risk Phrase	Weight (%)
Silver	7440-22-4	231-131-3	H410	0.1 - 20.0
Copper	7440-50-8	231-159-6	H410	70.0 – 97.9
Phosphorus	7723-14-0	231-768-7	H228, H412	2.0 – 10.0

Section 4: First Aid Measures

General Advice	Show this data sheet to the doctor in attendance.
Inhalation	Remove patient to fresh air. Seek medical attention if respiratory symptoms develop. Keep warm and at rest.
Skin contact	If reddening occurs wash affected area with soap and water. Seek medical attention if symptoms persist.
Eye contact	If redness or watering occurs irrigate with copious amounts of isotonic water or isotonic saline. Seek medical attention.
Ingestion	Do not induce vomiting. Keep warm and at rest. Obtain medical attention.

Section 5: Fire Fighting Measures

Suitable extinguishing media	Extinguish with dry powder, carbon dioxide or water spray.
Unsuitable extinguishing media	Water jets.
Specific hazards	None.
Special protective equipment for fire fighting	No special measures required.

Section 6: Accidental Release Measures

Personal precautions	Wear personal protective equipment.
Environmental precautions	Avoid release to the environment. Do not release to drain nor water courses.
Spillages	Transfer into suitable containers for recovery or disposal.

Section 7: Handling and Storage

Handling	Avoid contact with eyes, skin and clothing. Avoid breathing in metal fumes from heated material. When using do not eat drink or smoke.
Storage	Store in original packaging in cool, dry conditions.

Section 8: Exposure Controls/Personal Protection
Workplace exposure limits (From EH40/2005 including revisions up until 2011)

Substance	TWA (8 hours)	STEL (15 minutes)
Silver	0.1 mg.m ⁻³	--
Copper fume (as Cu)	0.2 mg.m ⁻³	--
Phosphorus, yellow	0.1 mg.m ⁻³	0.3 mg.m ⁻³

Wear suitable protective clothing, PVC gloves for handling and heat resistant gloves as appropriate. If PPE is required a chemical cartridge respirator should be used. Workplace atmospheric monitoring and local exhaust ventilation may be required. Medical surveillance may be required.

Section 9: Physical and Chemical Properties

Form	Wire/rod or strip/sheet in coil or straight lengths; discs or other shapes as required or as powder.
Colour	Metallic reddish/brown.
Odour	None.
pH	Not applicable.
Melting point/range	645-850°C
Water solubility	Very slight
Relative Density	8.0-8.4 at 20°C (dependent on composition)

Section 10: Stability and Reactivity

Stability	Stable under normal conditions.
Conditions to avoid	Not applicable.
Materials to avoid	Strong acids.
Hazardous decomposition products	None known.

Section 11: Toxicological Information

Acute toxicity	No data available.
Irritancy - Skin	Very slight potential for an allergic skin reaction
- Eyes	Unlikely to cause a problem.
Skin sensitisation	None known.
Carcinogenicity	None known.
Chronic toxicity	None known

Section 12: Ecological Information

Mobility	The product is non-volatile and insoluble. It will accumulate in the ground.
Persistence/Degradability	The product is expected to be resistant to biodegradation.
Bio-accumulation	A potential for bio-accumulation is indicated.
Ecotoxicity	No information available.

Section 13: Disposal Considerations

Waste from residues and unused product	Return to supplier.
Regulations	The wastes are classified as hazardous and should be disposed of in accordance with the Waste Framework Directive (75/442/EEC) and the Hazardous Waste Directive (91/689/EEC)
European Waste Catalogue (EWC) No.	17-04-09* (Metal – scrap, non-ferrous).

Section 14: Transport Information

Non-hazardous for air, sea and road freight.

UN Class	Not classified.
ADR/RID - Class	Not classified.
IMDG - Class	Not classified.
IMDG - Marine pollutant	Not classified.
IATA - Class	Not restricted.

Section 15: Regulatory Information

Regulation EC 1272/2008 Classification, Labelling and Packaging of Hazardous Substances and Mixtures (CLP)

EH40/2005 Workplace exposure Limits.

Personal Protective Equipment at work regulations 1992 (as amended)).

Control of Substances Hazardous to Health Regulations as amended (2002)

Labels Harmful

Classification according to EC 1272/2008 Classification, Labelling and Packaging of Hazardous Substances and Mixtures (CLP).



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Hazard Phrases:

Precautionary Phrases:

H335-May cause respiratory irritation

H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled

P261: Avoid breathing dust/fumes/gas/mist/vapours/spray.
P270: Do not eat, drink or smoke when using this product
P280: Wear protective gloves/protective clothing/eye protection/face protection

Section 16: Other

Product Names and Product Codes.

Product Name	Product Code	Product Name	Product Code
Phos 18	33362	HiPhos 5	33375
Phos 18L	95040	Phos 5H	33189
F7P	33034	Phos 5L	33383
Exp Phos 15 (High Phos)	95006	Cu Sn P Alloy	31010
Phos 15HP	33358	HF56	33982
F6PH	33020	Phos 5	31495
F157	32253	LAg 5P	31921
F157	32553	BCuP6	33003
Phos 15SLC	32542	Phos 2H	33237
BCuP5	33130	Phos 2L	31856
Phos 15 ISO CuP284	33670	Phos 2	31481
Phos 15LSE	32022	Phos 2	96005
LAg 15P	31447	Phos 1.6	33254
BSPhos 15	33578	Phos 1.6	31842
Phos 10 (Cyanamid)	23389	PX1.5T	33285
Phos 6	31509	Phos 1	31949
BCuP4	31588	Phos 1 Special	33082
F56	33870	Phos 0.2	32657

For further information contact Aspen Pumps Group.

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