

Product Name	Bossweld 2%, 5%, 15% Silver Brazing Alloy	
Part Number 300201, 300202, 300203, 300204, 300206, 300206H		
SDS Document Number SDS_Bossweld 2-5-15 Silver Brazing Alloys_V1.0_121219		
Issue Date	12/12/19	

SECTION 1: PRODUCT IDENTIFIER & IDENTITY FOR THE CHEMICAL

Product Identifier

Product Name:	Bossweld 2%, 5%, 15% Silver Brazing Alloy
Part Numbers:	300201, 300202, 300203, 300204, 300206, 300206H

Other means of identification

joining material; brazing

Relevant identified uses of the substance and uses advised against

Joining material used in brazing processes.

Details of the supplier

Supplier Name:	Dynaweld Industrial Supplies Pty Ltd	
Address:	Building 2, 10 Jessica Place, Prestons NSW 2214, Australia	
Phone:	+61 2 8761 6500	
Email:	sales@dynaweld.com.au	
Web Site:	https://www.dynaweld.com.au	

Emergency phone number

Emergency Phone:	+61 2 8761 6500 (Australia)
Emergency Frione.	± 01207010000 (Australia)

SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

HAZARDOUS CHEMICAL. NON-DANGEROUS GOODS. According to the WHS Regulations and the ADG Code.

CHEMWATCH HAZARD RATINGS

	Min	Max	
Flammability	0		
Toxicity	4		0 = Minimum
Body Contact	2		1 = Low 2 = Moderate
Reactivity	0		3 = High
Chronic	0		4 = Extreme

Poisons Schedule	Not Applicable	
Classification ^[1]	Acute Toxicity (Oral) Category 2, Acute Toxicity (Inhalation) Category 2, Acute Aquatic Hazard Category 2	
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI	

Label elements

Hazard pictogram(s)	
SIGNAL WORD	DANGER
Hazard statement(s)	
H300	Fatal if swallowed.
H330	Fatal if inhaled.
H401	Toxic to aquatic life.

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Precautionary statement(s) Prevention

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P264	Wash all exposed external body areas thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P284	Wear respiratory protection.

Precautionary statement(s) Response

, ,,	•
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P330	Rinse mouth.

Precautionary statement(s) Storage

P403+P233	Store in a well-ventilated place. Keep container tightly closed.	
P405	Store locked up.	

Precautionary statement(s) Disposal

P501 D

Dispose of contents/container in accordance with local regulations.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
Not Available		metal alloy consisting of
7440-50-8	>60	copper
7440-22-4	2-15	silver
12185-10-3	5-7	phosphorus, yellow, dry
Not Available		In use, product produces brazing volatiles, as
7440-50-8.		copper fume
1314-56-3		phosphorus pentoxide

SECTION 4 FIRST AID MEASURES

Description of first aid measures

•	
Eye Contact	 DO NOT attempt to remove particles attached to or embedded in eye. Lay victim down, on stretcher if available and pad BOTH eyes, make sure dressing does not press on the injured eye by placing thick pads under dressing, above and below the eye. Seek urgent medical assistance, or transport to hospital.
Skin Contact	If skin or hair contact occurs: Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation. In case of burns: Quickly immerse affected area in cold running water for 10 to 15 minutes. Bandage lightly with a sterile dressing. Treat for shock if required. Lay patient down. Keep warm and rested. Transport to hospital, or doctor.
Inhalation	 If fumes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary.
Ingestion	Not considered a normal route of entry. If poisoning occurs, contact a doctor or Poisons Information Centre.

Indication of any immediate medical attention and special treatment needed

for copper intoxication:

- Unless extensive vomiting has occurred empty the stomach by lavage with water, milk, sodium bicarbonate solution or a 0.1% solution of potassium ferrocyanide (the resulting copper ferrocyanide is insoluble).
- Administer egg white and other demulcents.
- Maintain electrolyte and fluid balances.
- ► Morphine or meperidine (Demerol) may be necessary for control of pain.
- F If symptoms persist or intensify (especially circulatory collapse or cerebral disturbances, try BAL intramuscularly or penicillamine in accordance with the supplier's recommendations.
- Treat shock vigorously with blood transfusions and perhaps vasopressor amines.
- F If intravascular haemolysis becomes evident protect the kidneys by maintaining a diuresis with mannitol and perhaps by alkalinising the urine with sodium bicarbonate.
- It is unlikely that methylene blue would be effective against the occassional methaemoglobinemia and it might exacerbate the subsequent haemolytic episode.
- Institute measures for impending renal and hepatic failure.
 - . [GOSSELIN, SMITH & HODGE: Commercial Toxicology of Commercial Products]
- A role for activated for charcoals or emesis is, as yet, unproven.



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In severe poisoning CaNa2EDTA has been proposed.

[ELLENHORN & BARCELOUX: Medical Toxicology]

Treat symptomatically.

Copper, magnesium, aluminium, antimony, iron, manganese, nickel, zinc (and their compounds) in welding, brazing, galvanising or smelting operations all give rise to thermally produced particulates of smaller dimension than may be produced if the metals are divided mechanically. Where insufficient ventilation or respiratory protection is available these particulates may produce "metal fume fever" in workers from an acute or long term exposure.

- > Onset occurs in 4-6 hours generally on the evening following exposure. Tolerance develops in workers but may be lost over the weekend. (Monday Morning Fever)
- Pulmonary function tests may indicate reduced lung volumes, small airway obstruction and decreased carbon monoxide diffusing capacity but these abnormalities resolve after several months.
 Although mildly elevated urinary levels of heavy metal may occur they do not correlate with clinical effects.
- The general approach to treatment is recognition of the disease, supportive care and prevention of exposure.
- > Seriously symptomatic patients should receive chest x-rays, have arterial blood gases determined and be observed for the development of tracheobronchitis and pulmonary edema.

[Ellenhorn and Barceloux: Medical Toxicology]

SECTION 5 FIREFIGHTING MEASURES

Extinguishing media

- There is no restriction on the type of extinguisher which may be used.
- Use extinguishing media suitable for surrounding area.

Special hazards arising from the substrate or mixture

None known.
 Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves in the event of a fire. Prevent, by any means available, spillage from entering drains or water courses. Use fire fighting procedures suitable for surrounding area. DO NOT approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers fire. Slight hazard when exposed to heat, flame and oxidisers.
 Non combustible. Not considered a significant fire risk, however containers may burn. Decomposition may produce toxic fumes of: metal oxides May emit poisonous fumes. May emit corrosive fumes.
Not Applicable

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

See section 8

Environmental precautions

See section 12

Methods and material for containment and cleaning up

Minor Spills	 Clean up all spills immediately. Secure load if safe to do so. Bundle/collect recoverable product. Collect remaining material in containers with covers for disposal.
Major Spills	 Minor hazard. Clear area of personnel. Alert Fire Brigade and tell them location and nature of hazard. Wear physical protective gloves e.g. Leather. Contain spill/secure load if safe to do so. Bundle/collect recoverable product and label for recycling. Collect remaining product and place in appropriate containers for disposal.

Personal Protective Equipment advice is contained in Section 8 of the SDS

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling	g
Safe handling	 Avoid generating and breathing dust. Limit all unnecessary personal contact. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Atmosphere should be checked against exposure standards Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke. Always wash hands with soap and water after handling. Use good occupational work practice.
Other information	 Store away from incompatible materials.

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Conditions for safe storage, including any incompatibilities

Suitable	container

Storage incompatibility

Check that containers are clearly labelled

Packaging as recommended by manufacturer.

Avoid strong acids, acid chlorides, acid anhydrides and chloroformates.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australia Exposure Standards	copper	Copper, dusts & mists (as Cu)	1 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	copper	Copper (fume)	0.2 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	silver	Silver, metal	0.1 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	phosphorus, yellow, dry	Phosphorus (yellow)	0.1 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	copper fume	Copper, dusts & mists (as Cu)	1 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	copper fume	Copper (fume)	0.2 mg/m3	Not Available	Not Available	Not Available

EMERGENCY LIMITS

Ingredient	Material name	TE	EL-1	TEEL-2	TEEL-3
copper	Copper	3 r	ng/m3	33 mg/m3	200 mg/m3
silver	Silver	0.3	3 mg/m3	170 mg/m3	990 mg/m3
phosphorus, yellow, dry	Phosphorus (yellow); (White phosphorus)	0.3	3 mg/m3	0.91 mg/m3	5.5 mg/m3
phosphorus, yellow, dry	Phosphorus (red)	0.2	27 mg/m3	3 mg/m3	18 mg/m3
copper fume	Copper	3 r	ng/m3	33 mg/m3	200 mg/m3
phosphorus pentoxide	Phosphorus pentoxide	No	ot Available	Not Available	Not Available
phosphorus pentoxide	zzSicapent	30	mg/m3	330 mg/m3	2,000 mg/m3
Ingredient	Original IDLH		Revised IDLH		
copper	100 mg/m3		Not Available		
silver	10 mg/m3		Not Available		
phosphorus, yellow, dry	5 mg/m3		Not Available		
copper fume	100 mg/m3		Not Available		
phosphorus pentoxide	Not Available		Not Available		

Exposure controls

Appropriate engineering controls	Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done to reduce the risk. Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use. Employers may need to use multiple types of controls to prevent employee overexposure.
Personal protection	
Eye and face protection	 Safety glasses with side shields; or as required, Chemical goggles. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly.
Skin protection	See Hand protection below
Hands/feet protection	Wear physical protective gloves, e.g. leather
Body protection	See Other protection below
Other protection	 Overalls. Eyewash unit. Aprons, sleeves, shoulder covers, leggings or spats of pliable flame resistant leather or other suitable materials may also be required in positions where these areas of the body will encounter hot metal.

Respiratory protection

Particulate. (AS/NZS 1716 & 1715, EN 143:2000 & 149:001, ANSI Z88 or national equivalent)

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required.

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Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	-AUS P2	-	-PAPR-AUS / Class 1 P2
up to 50 x ES	-	-AUS / Class 1 P2	-
up to 100 x ES	-	-2 P2	-PAPR-2 P2 ^

^ - Full-face

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

- ▶ Respirators may be necessary when engineering and administrative controls do not adequately prevent exposures.
- The decision to use respiratory protection should be based on professional judgment that takes into account toxicity information, exposure measurement data, and frequency and likelihood of the worker's exposure ensure users are not subject to high thermal loads which may result in heat stress or distress due to personal protective equipment (powered, positive flow, full face apparatus may be an option).
- Published occupational exposure limits, where they exist, will assist in determining the adequacy of the selected respiratory protection. These may be government mandated or vendor recommended.
- Certified respirators will be useful for protecting workers from inhalation of particulates when properly selected and fit tested as part of a complete respiratory protection program.
- ▶ Use approved positive flow mask if significant quantities of dust becomes airborne.

Try to avoid creating dust conditions.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance Copper coloured rods end tipper with various colours, canary(2% AgCuP), silver (5% AgCuP) or tan (15% AgCuP); insoluble in water.

			1
Physical state	Manufactured	Relative density (Water = 1)	~8
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Applicable
pH (as supplied)	Not Applicable	Decomposition temperature	Not Available
Melting point / freezing point (°C)	~645-740	Viscosity (cSt)	Not Applicable
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	Not Applicable	Taste	Not Available
Evaporation rate	Not Applicable	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Applicable	Surface Tension (dyn/cm or mN/m)	Not Applicable
Lower Explosive Limit (%)	Not Applicable	Volatile Component (%vol)	Not Applicable
Vapour pressure (kPa)	Not Applicable	Gas group	Not Available
Solubility in water	Immiscible	pH as a solution (1%)	Not Applicable
Vapour density (Air = 1)	Not Applicable	VOC g/L	Not Available

SECTION 10 STABILITY AND REACTIVITY

Reactivity	See section 7
Chemical stability	Product is considered stable and hazardous polymerisation will not occur.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

SECTION 11 TOXICOLOGICAL INFORMATION

Information on toxicological effects

	Inhalation of dusts, generated by the material, during the course of normal handling, may produce severely toxic effects; these may be fatal. Copper poisoning following exposure to copper dusts and fume may result in headache, cold sweat and weak pulse. Capillary, kidney, liver and brain
Inhaled	damage are the longer term manifestations of such poisoning. Inhalation of freshly formed metal oxide particles sized below 1.5 microns and generally between 0.02 to 0.05 microns may result in "metal fume fever". Symptoms may be delayed for up to 12 hours and begin with the sudden onset of thirst, and a sweet, metallic or foul taste in the mouth. Other symptoms include upper respiratory tract irritation accompanied by coughing and a dryness of the mucous membranes, lassitude and a generalised feeling of malaise. Mild to severe headache, nausea, occasional vomiting, fever or chills, exaggerated mental activity, profuse sweating, diarrhoea, excessive urination and prostration may also occur. Tolerance to the fumes develops rapidly, but is quickly lost. The inhalation of small particles of metal oxide results in sudden thirst, a sweet, metallic foul taste, throat irritation, cough, dry mucous membranes, tiredness and general unwellness. Headache, nausea and vomiting, fever or chills, restlessness, sweating, diarrhoea, excessive urination and prostration may also occur.
Ingestion	Considered an unlikely route of entry in commercial/industrial environments Not normally a hazard due to physical form of product.

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PHOSPHORUS PENTOXIDE PHOSPHORUS, YELLOW, DRY & PHOSPHORUS PENTOXIDE	at 1,000 mg/kg bw. Symptom of the hardness of skin, an exudation sites in all treated animals. Skin inflammation and injury were also 1,000 mg/kg bw. WARINING: Inhalation of high concentrations of copper fume may tiredness, influenza like respiratory tract irritation with fever. The material may produce severe irritation to the eye causing pror conjunctivitis. The material may cause skin irritation after prolonged or repeated scaling and thickening of the skin. Asthma-like symptoms may continue for months or even years after reactive airways dysfunction syndrome (RADS) which can occur RADS include the absence of previous airways disease in a non-a hours of a documented exposure to the irritant. Other criteria for d severe bronchial hyperreactivity on methacholine challenge testing asthma) following an irritating inhalation is an infrequent disorder substance. On the other hand, industrial bronchitis is a disorder the substance.	d 1,224 mg/kg bw for female. Four females died at both 1500 and 2000 mg/kg bw, and one of hardness site, the formation of scar and reddish changes were observed on application noted. In addition, a reddish or black urine was observed in females at 2,000, 1,500 and cause "metal fume fever", an acute industrial disease of short duration. Symptoms are nounced inflammation. Repeated or prolonged exposure to irritants may produce exposure and may produce on contact skin redness, swelling, the production of vesicles, ereposure to the material ends. This may be due to a non-allergic condition known as after exposure to high levels of highly irritating compound. Main criteria for diagnosing topic individual, with sudden onset of persistent asthma-like symptoms within minutes to figanosis of RADS include a reversible airflow pattern on lung function tests, moderate to g, and the lack of minimal lymphocytic inflammation, without eosinophilia. RADS (or with rates related to the concentration of and duration of exposure to the irritating ratocurs as a result of exposure due to high concentrations of irritating substance (often e disorder is characterized by difficulty breathing, cough and mucus production.	
PHOSPHORUS PENTOXIDE	at 1,000 mg/kg bw. Symptom of the hardness of skin, an exudation sites in all treated animals. Skin inflammation and injury were also 1,000 mg/kg bw. WARNING: Inhalation of high concentrations of copper fume may tiredness, influenza like respiratory tract irritation with fever. The material may produce severe irritation to the eye causing pror conjunctivitis. The material may cause skin irritation after prolonged or repeated	n of hardness site, the formation of scar and reddish changes were observed on application noted. In addition, a reddish or black urine was observed in females at 2,000, 1,500 and cause "metal fume fever", an acute industrial disease of short duration. Symptoms are nounced inflammation. Repeated or prolonged exposure to irritants may produce	
	at 1,000 mg/kg bw. Symptom of the hardness of skin, an exudation sites in all treated animals. Skin inflammation and injury were also 1,000 mg/kg bw. WARNING: Inhalation of high concentrations of copper fume may	n of hardness site, the formation of scar and reddish changes were observed on application noted. In addition, a reddish or black urine was observed in females at 2,000, 1,500 and	
COPPER	groups of 5 female rats received doses of 1000, 1500 and 2000 m	ailable. In an acute dermal toxicity study (OECD TG 402), one group of 5 male rats and 5 g/kg bw via dermal application for 24 hours. The LD50 values of copper monochloride	
Legend:	 Value obtained from Europe ECHA Registered Substances - Au data extracted from RTECS - Register of Toxic Effect of chemical 	cute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise specified Substances	
		Skin : SEVERE	
phosphorus pentoxide	Inhalation (rat) LC50: 0.30425 mg/l/1hE ^[2]	Eye: SEVERE	
	TOXICITY	IRRITATION	
	Oral (rat) LD50: 300-500 mg/kg ^[1]		
copper fume	Inhalation (rat) LC50: 0.733 mg/l4 h ^[1]	Skin: no adverse effect observed (not irritating) ^[1]	
	dermal (rat) LD50: >2000 mg/kg ^[1]	Eye: no adverse effect observed (not irritating) ^[1]	
	ТОХІСІТҮ	IRRITATION	
, , , , , , , , , , , , , , , , ,		Skin: no adverse effect observed (not irritating) ^[1]	
phosphorus, yellow, dry	Oral (rat) LD50: 11.5 mg/kg ^[2]	Eye: no adverse effect observed (not irritating) ^[1]	
	ΤΟΧΙΟΙΤΥ	IRRITATION	
	Oral (rat) LD50: >2000 mg/kg ^[2]		
silver	Inhalation (rat) LC50: >5.16 mg/l4 h ^[1]	Skin: no adverse effect observed (not irritating) ^[1]	
	dermal (rat) LD50: >2000 mg/kg ^[1]	Eye: no adverse effect observed (not irritating) ^[1]	
	ΤΟΧΙΟΙΤΥ	IRRITATION	
	Oral (rat) LD50: 300-500 mg/kg ^[1]		
copper	Inhalation (rat) LC50: 0.733 mg/l4 h ^[1]	Skin: no adverse effect observed (not irritating) ^[1]	
	dermal (rat) LD50: >2000 mg/kg ^[1]	Eye: no adverse effect observed (not irritating) ^[1]	
	ΤΟΧΙΟΙΤΥ	IRRITATION	
15% Silver Brazing Alloy	Not Available	Not Available	
Consolidated Alloys 2%, 5%,	ΤΟΧΙΟΙΤΥ	IRRITATION	
Chronic	For copper and its compounds (typically copper chloride): Acute toxicity: There are no reliable acute oral toxicity results available. Animal testing shows that skin in exposure to copper may lead to hardness of the skin, scar formation, exudation and reddish changes. Inflammation, irritation and injury of the skin were noted. Repeat dose toxicity: Animal testing shows that very high levels of copper monochloride may cause anaemia. Genetic toxicity: Copper monochloride does not appear to cause mutations in vivo, although chromosomal aberrations were seen at very high concentrations in vitro. Cancer-causing potential: There was insufficient information to evaluate the cancer-causing activity of copper monochloride.		
	over-exposure. Metallic dusts generated by the industrial process give rise to a number of potential health problems. The larger particles, above 5 micron, are throat irritants.		
		olten metal and inhalation of fume arising as a consequence of the action of the flame on excessive heating of the material, well above its quoted melting point, may result in	
Eye	Fumes from welding/brazing operations may be irritating to the ey	ies.	
Skin Contact	Skin contact does not normally present a hazard, though it is always possible that occasionally individuals may be found who react to substances usually regarded as inert. Molten material is capable of causing burns.		

Acute Toxicity	*	Carcinogenicity	×
Skin Irritation/Corrosion	×	Reproductivity	×



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 Serious Eye Damage/Irritation
 X
 STOT - Single Exposure
 X

 Respiratory or Skin sensitisation
 X
 STOT - Repeated Exposure
 X

 Mutagenicity
 X
 Aspiration Hazard
 X

gend: X – Data either not available or does not fill the criteria for clas V – Data available to make classification

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SECTION 12 ECOLOGICAL INFORMATION

Toxicity

Openalidated Allows 00/ 50/	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURC
Consolidated Alloys 2%, 5%, 15% Silver Brazing Alloy	Not Available	Not Available	Not Available	Not Available	Not Available
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURC
	LC50	96	Fish	0.001-0.09mg/L	2
	EC50	48	Crustacea	0.001mg/L	2
copper	EC50	72	Algae or other aquatic plants	0.013335mg/L	4
	BCF	960	Fish	200mg/L	4
	EC25	6	Algae or other aquatic plants	0.00150495mg/L	4
	NOEC	96	Crustacea	0.0008mg/L	4
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURC
	LC50	96	Fish	>0.001-0.93mg/L	2
	EC50	48	Crustacea	0.00024mg/L	4
silver	EC50	72	Algae or other aquatic plants	0.000016mg/L	2
	BCF	336	Crustacea	0.02mg/L	4
	NOEC	72	Algae or other aquatic plants	0.000003mg/L	2
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURC
	LC50	96	Fish	0.0023mg/L	2
phosphorus, yellow, dry	EC50	48	Crustacea	>0.03mg/L	2
	EC50	72	Algae or other aquatic plants	>100mg/L	2
	NOEC	48	Crustacea	0.03mg/L	2
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURC
	LC50	96	Fish	0.001-0.09mg/L	2
	EC50	48	Crustacea	0.001mg/L	2
copper fume	EC50	72	Algae or other aquatic plants	0.013335mg/L	4
	BCF	960	Fish	200mg/L	4
	EC25	6	Algae or other aquatic plants	0.00150495mg/L	4
	NOEC	96	Crustacea	0.0008mg/L	4
nhoonhowio pontorida	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURC
phosphorus pentoxide	EC50	72	Algae or other aquatic plants	66.5mg/L	2

(QSAR) - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
	No Data available for all ingredients	No Data available for all ingredients

Bioaccumulative potential

Ingredient	Bioaccumulation	
phosphorus, yellow, dry	HIGH (BCF = 2310000)	
Mobility in soil		
Mobility in soil Ingredient	Mobility	



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SAFETY DATA SHEET

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SECTION 13 DISPOSAL CONSIDERATIONS

Product / Packaging disposal > Recycle wherever possible or consult manufacturer for recycling options. > Consult State Land Waste Management Authority for disposal. > Bury residue in an authorised landfill. > Bury residue in an authorised landfill. > Recycle containers if possible, or dispose of in an authorised landfill.

SECTION 14 TRANSPORT INFORMATION

Labels Required

Marine Pollutant	NO
HAZCHEM	Not Applicable

Land transport (ADG): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

SECTION 15 REGULATORY INFORMATION

Safety, health and environmental regulations / legislation specific for the substance or mixture

COPPER(7440-50-8) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Exposure Standards	Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule
Australia Inventory of Chemical Substances (AICS)	4
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Appendix A	Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Index	Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 6
SILVER(7440-22-4) IS FOUND ON THE FOLLOWING REGULATORY LISTS	
Australia Exposure Standards	Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Index
Australia Inventory of Chemical Substances (AICS)	Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Appendix	2
E (Part 2)	International WHO List of Proposed Occupational Exposure Limit (OEL) Values for
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Appendix F (Part 3)	Manufactured Nanomaterials (MNMS)
PHOSPHORUS, YELLOW, DRY(12185-10-3) IS FOUND ON THE FOLLOWING REGULATO	RY LISTS
Australia Dangerous Goods Code (ADG Code) - Dangerous Goods List	Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule
Australia Dangerous Goods Code (ADG Code) - List of Emergency Action Codes	6
Australia Exposure Standards	Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule
Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals	7
Australia Inventory of Chemical Substances (AICS)	GESAMP/EHS Composite List - GESAMP Hazard Profiles
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Appendix E (Part 2)	IMDG Code - Medical First Aid Guide for use in accidents involving Dangerous Goods (MFAG) - Appendix 15 List Of Substances
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Appendix	IMO IBC Code Chapter 17: Summary of minimum requirements
F (Part 3)	IMO MARPOL (Annex II) - List of Noxious Liquid Substances Carried in Bulk
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Appendix	International Air Transport Association (IATA) Dangerous Goods Regulations
G	International Air Transport Association (IATA) Dangerous Goods Regulations - Prohibited List
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Index	Passenger and Cargo Aircraft
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule	International Maritime Dangerous Goods Requirements (IMDG Code)
4	United Nations Recommendations on the Transport of Dangerous Goods Model Regulations
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5	
COPPER FUME(7440-50-8.) IS FOUND ON THE FOLLOWING REGULATORY LISTS	
Australia Exposure Standards	Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule
Australia Inventory of Chemical Substances (AICS)	4
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Appendix A	Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Index	Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 6
PHOSPHORUS PENTOXIDE(1314-56-3) IS FOUND ON THE FOLLOWING REGULATORY L	ISTS
Australia Dangerous Goods Code (ADG Code) - Dangerous Goods List	International Air Transport Association (IATA) Dangerous Goods Regulations

National Inventory Status

Bossweld 2%, 5%, 15% Silver Brazing Alloy

300201, 300202, 300203, 300204, 300206, 300206H 12/12/19

National Inventory	Status
Australia - AICS	Yes
Canada - DSL	Yes
Canada - NDSL	No (copper fume; phosphorus pentoxide; copper; phosphorus, yellow, dry; silver)
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	Yes
Japan - ENCS	No (copper fume; copper; phosphorus, yellow, dry; silver)
Korea - KECI	Yes
New Zealand - NZIoC	Yes
Philippines - PICCS	Yes
USA - TSCA	Yes
Taiwan - TCSI	Yes
Mexico - INSQ	Yes
Vietnam - NCI	Yes
Russia - ARIPS	Yes
Thailand - TECI	No (copper fume; copper)
Legend:	Yes = All CAS declared ingredients are on the inventory No = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

SECTION 16 OTHER INFORMATION

Revision Date	05/03/2018
Initial Date	Not Available

SDS Version Summary

Version	Issue Date	Sections Updated
3.1.1.1	21/06/2013	Acute Health (eye), Acute Health (inhaled), Acute Health (skin), Acute Health (swallowed), Advice to Doctor, Appearance, Chronic Health, Classification, Disposal, Engineering Control, Environmental, Exposure Standard, Fire Fighter (extinguishing media), Fire Fighter (fire/explosion hazard), Fire Fighter (fire incompatibility), First Aid (eye), First Aid (inhaled), First Aid (skin), First Aid (swallowed), Handling Procedure, Ingredients, Personal Protection (other), Personal Protection (Respirator), Personal Protection (eye), Personal Protection (hands/feet), Physical Properties, Spills (major), Storage (storage incompatibility), Storage (suitable container), Supplier Information, Toxicity and Irritation (Other)

Other information

Ingredients with multiple cas numbers

Name	CAS No
copper	7440-50-8, 133353-46-5, 133353-47-6, 195161-80-9, 65555-90-0, 72514-83-1
phosphorus, yellow, dry	12185-10-3, 7723-14-0
phosphorus pentoxide	1314-56-3, 16752-60-6

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

Definitions and abbreviations

PC — TWA: Permissible Concentration-Time Weighted Average PC — STEL: Permissible Concentration-Short Term Exposure Limit IARC: International Agency for Research on Cancer ACGIH: American Conference of Governmental Industrial Hygienists STEL: Short Term Exposure Limit TEEL: Temporary Emergency Exposure Limit. IDLH: Immediately Dangerous to Life or Health Concentrations OSF: Odour Safety Factor NOAEL :No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level LUX: Threshold Limit Value LOD: Limit Of Detection OTV: Odour Threshold Value BCF: BioConcentration Factors BEI: Biological Exposure Index

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