

Chemwatch: 15-8498

Version No: 6.1.16.10 Safety Data Sheet according to WHS Regulations (Hazardous Chemicals) Amendment 2020 and ADG requirements Chemwatch Hazard Alert Code: 4 Issue Date: 20/08/2021

Print Date: 02/09/2021 S.GHS.AUS.EN

SECTION 1 Identification of the substance / mixture and of the company / undertaking

Product Identifier

Product name	Consolidated Alloys 2%, 5%, 15% Silver Brazing Alloy		
Chemical Name	Not Applicable		
Synonyms	ioining material; brazing		
Chemical formula	Not Applicable		
Other means of identification	ion Not Available		

Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses

Joining material used in brazing processes.

Details of the supplier of the safety data sheet

Registered company name	CA Group		
Address	32 Industrial Avenue Thomastown VIC 3074 Australia		
Telephone	61 3 8301 7100		
Fax	+61 3 9359 4076		
Website	www.cagroup.com.au		
Email	jmarchese@cagroup.com.au		

Emergency telephone number

Association / Organisation	(03) 8301 7100	
Emergency telephone numbers	(03) 8301 7107 (Business hours 9am – 5pm)	
Other emergency telephone numbers 0428 904 506 (After Hours)		

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

Poisons Schedule	Not Applicable
Classification [1] Acute Toxicity (Oral) Category 3, Serious Eye Damage/Eye Irritation Category 2B, Acute Toxicity (Inhalation) Category 3, Hazardous to the Aquatic Environment Long-Term 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)	
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Hazard statement(s)

H301	Toxic if swallowed.	
H320	H320 Causes eye irritation.	
H331	1331 Toxic if inhaled.	
H411 Toxic to aquatic life with long lasting effects.		

Precautionary statement(s) Prevention

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P264	Wash all exposed external body areas thoroughly after handling.		
P270	P270 Do not eat, drink or smoke when using this product.		
P271	Use only outdoors or in a well-ventilated area.		
P261	P261 Avoid breathing dust/fumes.		
P273 Avoid release to the environment.			

Precautionary statement(s) Response

P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician/first aider.		
P330	Rinse mouth.		
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.		
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.		
P311	Call a POISON CENTER/doctor/physician/first aider.		
P337+P313	7+P313 If eye irritation persists: Get medical advice/attention.		
P391	P391 Collect spillage.		

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

Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

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	
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4. Classification drawn from C&L * EU IOELVs available		

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.
- 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.
- 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 charcoals for emesis is, as yet, unproven.
 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

Special nazards arising from the substrate or mixture			
Fire Incompatibility	None known.		
Advice for firefighters			
Fire Fighting	 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 from path of fire. Slight hazard when exposed to heat, flame and oxidisers. 		

Fire/Explosion Hazard	 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.
HAZCHEM	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

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.

Conditions for safe storage, including any incompatibilities

Suitable container	Check that containers are clearly labelled Packaging as recommended by manufacturer.	
Storage incompatibility	Avoid strong acids, acid chlorides, acid anhydrides and chloroformates.	

SECTION 8 Exposure controls / personal protection

Control parameters

Occupational Exposure Limits (OEL)

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	TEEL-1 TEEL-2			TEEL-3	
copper	3 mg/m3	33 mg/m3		200 mg/m3	
silver	0.3 mg/m3	170 mg/m3		990 mg/m3	
phosphorus, yellow, dry	0.3 mg/m3	0.91 mg/m3		5.5 mg/m3	
phosphorus, yellow, dry	0.27 mg/m3	3 mg/m3		18 mg/m3	
copper fume	3 mg/m3	33 mg/m3		200 mg/m3	
phosphorus pentoxide	Not Available	Not Available		Not Available	
phosphorus pentoxide	30 mg/m3	330 mg/m3		2,000 mg/m3	
Ingredient	Original IDLH	Original IDLH		Revised IDLH	
copper	100 mg/m3	100 mg/m3		Not Available	
silver	10 mg/m3	10 mg/m3		Not Available	
phosphorus, yellow, dry	5 mg/m3	5 mg/m3		Not Available	
copper fume	100 mg/m3	100 mg/m3		Not Available	
phosphorus pentoxide	Not Available	Not Available		Not Available	

Occupational Exposure Banding

Occupational Exposure Banding			
Ingredient	Occupational Exposure Band Rating Occupational Exposure Band Limit		
phosphorus pentoxide	E	≤ 0.01 mg/m³	
Notes:	Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a range of exposure concentrations that are expected to protect worker health.		

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. 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.

Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)

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.		
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 (%)	Not Applicable
Vapour density (Air = 1)	Not Applicable	VOC g/L	Not Available

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

Initiation of DLSS, generation by the material, during the counce of normal handling, may produe several volume specifies, these may be startly here and weak and weak publics. Generations were several to be producting information of the initiation of media weak particles startly above. The initiation of the initititiation of the initiation of the initiation				
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Skin Central usually regarded as inert. Sign Central Funces from weiding/brazing operations may be irritating to the eyes. Fire Funces from weiding/brazing operations may be irritating to the eyes. Chronel Principal rolutes of expoure include accidential contact with the notion metal and inhabation of fune artisting, well alone its guoded mething point, material, well alone its guoded mething point, well and material of point motion contact with the motion metal and inhabition of fune artisting, well alone its guoded mething point, material, whell alone point, alone and material material, well alone part of alone alone point, wells, assative print alone, wells and black material. Chronel Trunces real on telable accidential oppoint alone alone on table alone with alone point alone, alone and material alone, alone and the alone on table alone with alone point alone, alone and the alone on table alone, alone alo	Ingestion	Considered an unlikely route of entry in commercial/industrial environments		
Check Principal routes of expoure include accidental contact with the molten metal and inhalation of ture arising as a consequence of the action of the flavor in the root / wice. Attain, ture generation rates are generally low, excessive healing of the material, well above its quoted meting point, may another of yotential healin problems. The larger particles, above 5 micron, are rose and throat initiation. Chrone Period involution of the industrial processing signer file to a number of potential healin problems. The larger particles, above 5 micron, are rose and throat initiation. Chrone Period industrial testing aboves that were visible action of tools in exposure to cooper may lead to hardnes of the science of tools involution and rodination. Initiation and injury of the sint were noted. Repeat dase toxibity: Ahmat testing aboves that were high levels of cooper monocholde dase not appear to cuse mutations in were, assen and very high constraints in two. Consolidated Alloys 2%, 5%, 15% Silver Brazing Alloy TOXICITY IRRITATION Marcal above to a constraint above to a constraint were seen at very high constraints in vitro. ToxiCitry IRRITATION demaid (rat) LD50: >2000 mg/kg ^[1] Eye: no adverse effect observed (not irritating) ^[1] Instantion(Re) LC50, 0.733 mg/4h ^[1] Skin: no adverse effect observed (not irritating) ^[1] orright appearse TOXICITY IRRITATION IRRITATION demaid (rat) LD50: >2000 mg/kg ^[2] Eye: no adverse effect observed (not irritating) ^[1] <t< th=""><th>Skin Contact</th><th colspan="3">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.</th></t<>	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.		
time on the rod / wire. Although tune generation rates are generally low, excessive heating of the material, well above its quoted melting point, may read in one-sepasate. well is quoted melting point. Chronic Metallic dusts generated by the industrial process give rise to a number of potential health problems. The larger particles, above 5 micron, are no reliable actional transmiss. Second Second Second Transmiss. Chronic Second Seco	Eye	Fumes from welding/brazing operations may be irritating to the eyes.		
Not Available Not Available Not Available RRITATION copper dermal (rat) LD50: >2000 mg/kg ^[1] Eye: no adverse effect observed (not irritating) ^[1] Inhalation(Rat) LC50: 0.733 mg/4hl ^[1] Skin: no adverse effect observed (not irritating) ^[1] Oral(Mouse) LD50: 0.7 mg/kg ^[2] RRITATION dermal (rat) LC50: 0.7 mg/kg ^[2] RRITATION otral(Carl) Germal (rat) LC50: 0.7 mg/kg ^[2] Oral(Mouse) LD50: 0.7 mg/kg ^[2] Skin: no adverse effect observed (not irritating) ^[1] Inhalation(Rat) LC50: 0.7 mg/kg ^[2] Skin: no adverse effect observed (not irritating) ^[1] Inhalation(Rat) LC50: 5.16 mg/Hg ^[2] Skin: no adverse effect observed (not irritating) ^[1] Oral(Cat) LD50: 52000 mg/kg ^[2] Eye: no adverse effect observed (not irritating) ^[1] Oral(Cat) LD50: 5 mg/kg ^[2] Eye: no adverse effect observed (not irritating) ^[1] Oral(Cat) LD50: 52000 mg/kg ^[1] Eye: no adverse effect observed (not irritating) ^[1] Inhalation(Rat) LC50: 0.73 mg/Hh ^[1] Skin: no adverse effect observed (not irritating) ^[1] Inhalation(Rat) LC50: 0.73 mg/Hh ^[1] Eye: no adverse effect observed (not irritating) ^[1] Inhalation(Rat) LC50: 0.73 mg/Hh ^[1] Skin: no adverse effect observed (not irritating) ^[1]	Chronic	flame on the rod / wire. Although fume generation rates are generally low may result in over-exposure. Metallic dusts generated by the industrial process give rise to a number of nose and throat irritants. For copper and its compounds (typically copper chloride): Acute toxicity: There are no reliable acute oral toxicity results available. / hardness of the skin, scar formation, exudation and reddish changes. Inf Repeat dose toxicity: Animal testing shows that very high levels of copper Genetic toxicity: Copper monochloride does not appear to cause mutation concentrations in vitro.	v, excessive heating of the material, well above its quoted melting point, of potential health problems. The larger particles, above 5 micron, are Animal testing shows that skin in exposure to copper may lead to lammation, irritation and injury of the skin were noted. er monochloride may cause anaemia. Ins in vivo, although chromosomal aberrations were seen at very high	
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Skin : SEVERE	phosphorus pentoxide			
Legend: 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise				
	Legend:	1. Value obtained from Europe ECHA Registered Substances - Acute to.	xicity 2.* Value obtained from manufacturer's SDS. Unless otherwise	

PHOSPHORUS PENTOXIDE	copper monochloride were 2,000 mg/kg bw or greater for male (no 1500 and 2000 mg/kg bw, and one at 1,000 mg/kg bw. Symptom or reddish changes were observed on application sites in all treated a black urine was observed in females at 2,000, 1,500 and 1,000 mg The material may produce severe irritation to the eye causing pron produce conjunctivitis. The material may cause skin irritation after prolonged or repeated vesicles, scaling and thickening of the skin. Asthma-like symptoms may continue for months or even years afte known as reactive airways dysfunction syndrome (RADS) which ca criteria for diagnosing RADS include the absence of previous airway	of the hardness of skin, an animals. Skin inflammation g/kg bw. nounced inflammation. Rep exposure and may produce er exposure to the material an occur after exposure to ays disease in a non-atopic	exudation of hardness site, the formation of scar and and injury were also noted. In addition, a reddish or eated or prolonged exposure to irritants may e on contact skin redness, swelling, the production of ends. This may be due to a non-allergic condition high levels of highly irritating compound. Main c individual, with sudden onset of persistent
	asthma-like symptoms within minutes to hours of a documented exposure to the irritant. Other criteria for diagnosis of RADS include a reversible airflow pattern on lung function tests, moderate to severe bronchial hyperreactivity on methacholine challenge testing, and the lack of minimal lymphocytic inflammation, without eosinophilia. RADS (or asthma) following an irritating inhalation is an infrequent disorder with rates related to the concentration of and duration of exposure to the irritating substance. On the other hand, industrial bronchitis is a disorder that occurs as a result of exposure due to high concentrations of irritating substance (often particles) and is completely reversible after exposure ceases. The disorder is characterized by difficulty breathing, cough and mucus production.		
PHOSPHORUS, YELLOW, DRY & PHOSPHORUS PENTOXIDE	lymphocytic inflammation, without eosinophilia. RADS (or asthma) the concentration of and duration of exposure to the irritating substance result of exposure due to high concentrations of irritating substance of exposure due to high concentrations of irritating substance of exposure due to high concentrations of irritating substance of exposure due to high concentrations of irritating substance of exposure due to high concentrations of irritating substance of exposure due to high concentrations of irritating substance of exposure due to high concentrations of irritating substance of exposure due to high concentrations of irritating substance of exposure due to high concentrations of irritating substance of exposure due to high concentrations due to high concentrations of exposure due to high concentrations due to) following an irritating inhal stance. On the other hand, i ce (often particles) and is co	choline challenge testing, and the lack of minimal ation is an infrequent disorder with rates related to ndustrial bronchitis is a disorder that occurs as a
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& PHOSPHORUS PENTOXIDE	lymphocytic inflammation, without eosinophilia. RADS (or asthma) the concentration of and duration of exposure to the irritating substance due to high concentrations of irritating substance disorder is characterized by difficulty breathing, cough and mucus) following an irritating inhal tance. On the other hand, i æ (often particles) and is co production.	choline challenge testing, and the lack of minimal ation is an infrequent disorder with rates related to ndustrial bronchitis is a disorder that occurs as a pompletely reversible after exposure ceases. The
& PHOSPHORUS PENTOXIDE	lymphocytic inflammation, without eosinophilia. RADS (or asthma) the concentration of and duration of exposure to the irritating substance disorder is characterized by difficulty breathing, cough and mucus) following an irritating inhal tance. On the other hand, i æ (often particles) and is co production. Carcinogenicity	choline challenge testing, and the lack of minimal ation is an infrequent disorder with rates related to ndustrial bronchitis is a disorder that occurs as a mpletely reversible after exposure ceases. The
& PHOSPHORUS PENTOXIDE Acute Toxicity Skin Irritation/Corrosion	lymphocytic inflammation, without eosinophilia. RADS (or asthma) the concentration of and duration of exposure to the irritating substance disorder is characterized by difficulty breathing, cough and mucus) following an irritating inhal tance. On the other hand, i ze (often particles) and is co production. Carcinogenicity Reproductivity	choline challenge testing, and the lack of minimal ation is an infrequent disorder with rates related to ndustrial bronchitis is a disorder that occurs as a ompletely reversible after exposure ceases. The X

SECTION 12 Ecological information

Consolidated Alloys 2%, 5%, 15% Silver Brazing Alloy	Endpoint	Test Duration (hr)	Species	Value	Source
	Not Available	Not Available	Not Available	Not Available	Not Availabl
	Endpoint	Test Duration (hr)	Species	Value	Sourc
	EC50(ECx)	24h	Algae or other aquatic plants	<0.001mg/L	4
	EC50	72h	Algae or other aquatic plants	0.011-0.017mg/	'L 4
copper	LC50	96h	Fish	~0.005mg/L	4
	EC50	48h	Crustacea	<0.001mg/L	4
	EC50	96h	Algae or other aquatic plants	0.03-0.058mg/l	4
	Endpoint	Test Duration (hr)	Species	Value	Sourc
	NOEC(ECx)	120h	Fish	<0.001mg/	'L 4
silver	EC50	72h	Algae or other aquatic plants	11.89mg/l	2
	LC50	96h	Fish	0.006mg/l	2
	EC50	48h	Crustacea	0.001mg/l	2
	EC50	96h	Algae or other aquatic plants	0.002mg/L	4
	Endpoint	Test Duration (hr)	Species	Value	Sourc
	NOEC(ECx)	336h	Algae or other aquatic plants	0.01mg/	4
phosphorus, yellow, dry	EC50	72h	Algae or other aquatic plants	~1.3mg/	2
	LC50	96h	Fish	0.95mg/	2
	EC50	48h	Crustacea	>0.03mg	/l 2
	Endpoint	Test Duration (hr)	Species	Value	Sourc
	EC50(ECx)	24h	Algae or other aquatic plants	<0.001mg/L	4
	EC50	72h	Algae or other aquatic plants	0.011-0.017mg/	'L 4
copper fume	LC50	96h	Fish	~0.005mg/L	4
	EC50	48h	Crustacea	<0.001mg/L	4
	EC50	96h	Algae or other aquatic plants	0.03-0.058mg/l	4
	Endpoint	Test Duration (hr)	Species	Value	Sourc
phosphorus pentoxide	 EC50	72h	Algae or other aquatic plants	66.5mc	/ 2

Issue Date: 20/08/2021 Print Date: 02/09/2021

Consolidated Alloys 2%, 5%, 15% Silver Brazing Alloy

	EC50(ECx) 72h	Algae or other aquatic plants	66.5mg/l 2
Legend:	V3.12 (QSAR) - Aquatic Toxicity Data	a 2. Europe ECHA Registered Substances - Ecotoxicological Information - (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECET on 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)	
BR - 1 , 114 - 14		
Mobility in soil		
Ingredient	Mobility	
	No Data available for all ingredients	

SECTION 13 Disposal considerations

Waste treatment methods		
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. Recycle containers if possible, or dispose of in an authorised landfill. 	

SECTION 14 Transport information

Labels Required

Marine Pollutant	
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

Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
copper	Not Available
silver	Not Available
phosphorus, yellow, dry	Not Available
copper fume	Not Available
phosphorus pentoxide	Not Available

Transport in bulk in accordance with the ICG Code

Product name	Ship Type
copper	Not Available
silver	Not Available
phosphorus, yellow, dry	Not Available
copper fume	Not Available
phosphorus pentoxide	Not Available

SECTION 15 Regulatory information

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

copper is found on the following regulatory lists

Chemwatch: 15-8498	Page	9 of 10	Issue Date: 20/08/2021
Version No: 6.1.16.10	Consolidated Alloys 2%, 5%, 15% Silver Brazing Alloy		Print Date: 02/09/2021
Australia Standard for the Uniform S Schedule 4	cheduling of Medicines and Poisons (SUSMP) -	Australia Standard for the Uniform Scheduling of Medicine Schedule 6	es and Poisons (SUSMP) -
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5		Australian Inventory of Industrial Chemicals (AIIC)	
silver is found on the following re	gulatory lists		
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 2		International WHO List of Proposed Occupational Exposu Manufactured Nanomaterials (MNMS)	re Limit (OEL) Values for
Australian Inventory of Industrial Che	emicals (AIIC)		
phosphorus, yellow, dry is found	on the following regulatory lists		
	nation System (HCIS) - Hazardous Chemicals	Australia Standard for the Uniform Scheduling of Medicine Schedule 6	es and Poisons (SUSMP) -
Schedule 4	cheduling of Medicines and Poisons (SUSMP) -	Australia Standard for the Uniform Scheduling of Medicine	es and Poisons (SUSMP) -
Australia Standard for the Uniform S Schedule 5	cheduling of Medicines and Poisons (SUSMP) -	Schedule 7 Australian Inventory of Industrial Chemicals (AIIC)	
copper fume is found on the follo	wing regulatory lists		
	,		
Australia Standard for the Uniform S Schedule 4	cheduling of Medicines and Poisons (SUSMP) -	Australia Standard for the Uniform Scheduling of Medicine Schedule 6	es and Poisons (SUSMP) -
Australia Standard for the Uniform S Schedule 5	cheduling of Medicines and Poisons (SUSMP) -	Australian Inventory of Industrial Chemicals (AIIC)	
phosphorus pentoxide is found of	n the following regulatory lists		
Australia Hazardous Chemical Inforr	nation System (HCIS) - Hazardous Chemicals	Australian Inventory of Industrial Chemicals (AIIC)	

National Inventory Status

National Inventory	Status	
Australia - AIIC / Australia Non-Industrial Use	Yes	
Canada - DSL	Yes	
Canada - NDSL	No (copper; silver; phosphorus, yellow, dry; copper fume; phosphorus pentoxide)	
China - IECSC	Yes	
Europe - EINEC / ELINCS / NLP	Yes	
Japan - ENCS	No (copper; silver; phosphorus, yellow, dry; copper fume)	
Korea - KECI	Yes	
New Zealand - NZIoC	Yes	
Philippines - PICCS	Yes	
USA - TSCA	Yes	
Taiwan - TCSI	Yes	
Mexico - INSQ	Yes	
Vietnam - NCI	Yes	
Russia - FBEPH	Yes	
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.	

SECTION 16 Other information

Revision Date	20/08/2021
Initial Date	25/06/2008

SDS Version Summary

Version	Date of Update	Sections Updated
5.1.1.1	01/11/2019	One-off system update. NOTE: This may or may not change the GHS classification
5.1.2.1	26/04/2021	Regulation Change
5.1.3.1	03/05/2021	Regulation Change
5.1.4.1	06/05/2021	Regulation Change
5.1.5.1	10/05/2021	Regulation Change
5.1.5.2	30/05/2021	Template Change
5.1.5.3	04/06/2021	Template Change
5.1.5.4	05/06/2021	Template Change
5.1.6.4	07/06/2021	Regulation Change
5.1.6.5	09/06/2021	Template Change
5.1.6.6	11/06/2021	Template Change
5.1.6.7	15/06/2021	Template Change
5.1.7.7	17/06/2021	Regulation Change
5.1.8.7	21/06/2021	Regulation Change
5.1.8.8	05/07/2021	Template Change

Version	Date of Update	Sections Updated
5.1.9.8	14/07/2021	Regulation Change
5.1.10.8	19/07/2021	Regulation Change
5.1.10.9	01/08/2021	Template Change
5.1.11.9	02/08/2021	Regulation Change
5.1.12.9	05/08/2021	Regulation Change
5.1.13.9	09/08/2021	Regulation Change
6.1.13.9	20/08/2021	Classification change due to full database hazard calculation/update.
6.1.14.9	23/08/2021	Regulation Change
6.1.15.9	26/08/2021	Regulation Change
6.1.15.10	29/08/2021	Template Change
6.1.16.10	30/08/2021	Regulation Change

Other information

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 ES: Exposure Standard OSF: Odour Safety Factor NOAEL :No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level TLV: Threshold Limit Value LOD: Limit Of Detection OTV: Odour Threshold Value BCF: BioConcentration Factors BEI: Biological Exposure Index AIIC: Australian Inventory of Industrial Chemicals DSL: Domestic Substances List NDSL: Non-Domestic Substances List IECSC: Inventory of Existing Chemical Substance in China EINECS: European INventory of Existing Commercial chemical Substances ELINCS: European List of Notified Chemical Substances NLP: No-Longer Polymers ENCS: Existing and New Chemical Substances Inventory KECI: Korea Existing Chemicals Inventory NZIoC: New Zealand Inventory of Chemicals PICCS: Philippine Inventory of Chemicals and Chemical Substances TSCA: Toxic Substances Control Act TCSI: Taiwan Chemical Substance Inventory INSQ: Inventario Nacional de Sustancias Químicas NCI: National Chemical Inventory FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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