

Chemtools Pty Ltd

Chemwatch: 5660-65

Version No: 2.1

Safety Data Sheet according to WHS Regulations (Hazardous Chemicals) Amendment 2020 and ADG requirements Safety Data Sheet according to the Health and Safety at Work (Hazardous Substances) Regulations 2017

hemwatch Hazard Alert Code: 3

Issue Date: **26/03/2024** Print Date: **02/04/2024** S.GHS.AUS/NZ.EN.E

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

Product Identifier

Product name	Solder Wire, Sn63/Pb37, CX18, No Clean
Chemical Name	Not Applicable
Chemical formula	Not Applicable
Other means of identification	Not Available

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

Relevant identified uses	Use according to manufacturer's directions. Massive form of the metal. Massive or bulk metals (as opposed to dispersed or divided metals) are characterised by having a well-ordered infinite lattice of
	metal atoms. Massive metals exist in various forms, including sheets, rods, ingots, foils, pellets, wire or on occasion, dusts.

Details of the manufacturer or supplier of the safety data sheet

Registered company name	Chemtools Pty Ltd	Chemtools Ltd
Address	Unit 2, 14 - 16 Lee Holm Road St Marys NSW 2760 Australia	15/62 Factory Road Belfast Christchurch 8051 New Zealand
Telephone	1300 738 250, +61 2 9833 9766	+64 3 323 4177
Fax	+61 2 9623 3670	+61 2 9623 3670
Website	www.chemtools.com.au	www.chemtools.co.nz
Email	sales@chemtools.com.au	sales@chemtools.com.au

Emergency telephone number

Association / Org	anisation	Poisons Information Centre	National Poisons Centre
Emergency t	elephone numbers	13 11 26	0800 764 766
Other en telephone	nergency numbers	Not Available	Not Available

SECTION 2 Hazards identification

Classification of the substance or mixture

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

Poisons Schedule	Not Applicable
Classification ^[1]	Acute Toxicity (Oral) Category 4, Serious Eye Damage/Eye Irritation Category 2A, Reproductive Toxicity Category 1B, Reproductive Toxicity Effects on or via Lactation, Hazardous to the Aquatic Environment Acute Hazard Category 1
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI

Solder Wire, Sn63/Pb37, CX18, No Clean



Signal word Danger

Hazard statement(s)

H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H360Df	May damage the unborn child. Suspected of damaging fertility.
H362	May cause harm to breast-fed children.
H400	Very toxic to aquatic life.

Precautionary statement(s) Prevention

P201	Obtain special instructions before use.
P260	Do not breathe dust/fume.
P263	Avoid contact during pregnancy and while nursing.
P280	Wear protective gloves, protective clothing, eye protection and face protection.
P270	Do not eat, drink or smoke when using this product.
P264	Wash all exposed external body areas thoroughly after handling.
P273	Avoid release to the environment.

Precautionary statement(s) Response

P308+P313	IF exposed or concerned: Get medical advice/ attention.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P391	Collect spillage.
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor/physician/first aider if you feel unwell.
P330	Rinse mouth.

Precautionary statement(s) Storage

Store locked up.

Precautionary statement(s) Disposal

P501

P405

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

Considered a Hazardous Substance according to the criteria of the New Zealand Hazardous Substances New Organisms legislation. Not regulated for transport of Dangerous Goods.

NFPA 704 diamond

2 0	Note: The hazard category numbers found in GHS classification in section 2 of this SDSs are NOT to be used to fill in the NFPA 704 diamond. Blue = Health Red = Fire Yellow = Reactivity White = Special (Oxidizer or water reactive substances)

Classification ^[1]	Acute Toxicity (Oral) Category 3, Serious Eye Damage/Eye Irritation Category 2, Germ Cell Mutagenicity Category 2, Carcinogenicity Category 2, Reproductive Toxicity Category 1, Reproductive Toxicity Effects on or via Lactation, Specific Target Organ Toxicity - Repeated Exposure Category 1, Hazardous to the Aquatic Environment Acute Hazard Category 1, Hazardous to the Aquatic Environment Long-Term Hazard Category 1
Legend:	1. Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI
Determined by Chemwatch using GHS/HSNO criteria	6.1C (oral), 6.4A, 6.6B, 6.7B, 6.8A, 6.8C, 6.9A, 9.1A

Solder Wire, Sn63/Pb37, CX18, No Clean

Hazard pictogram(s)

Signal word Danger

Hazard statement(s)

H301	Toxic if swallowed.
H319	Causes serious eye irritation.
H341	Suspected of causing genetic defects.
H351	Suspected of causing cancer.
H360	May damage fertility or the unborn child.
H362	May cause harm to breast-fed children.
H372	Causes damage to organs through prolonged or repeated exposure.
H410	Very toxic to aquatic life with long lasting effects.

Supplementary statement(s)

Not Applicable

Precautionary statement(s) Prevention

P201	Obtain special instructions before use.
P260	Do not breathe dust/fume.
P263	Avoid contact during pregnancy and while nursing.
P264	Wash all exposed external body areas thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves, protective clothing, eye protection and face protection.
P273	Avoid release to the environment.

Precautionary statement(s) Response

P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician/first aider.			
P308+P313	exposed or concerned: Get medical advice/ attention.			
P330	Rinse mouth.			
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.			
P314	Get medical advice/attention if you feel unwell.			
P337+P313	If eye irritation persists: Get medical advice/attention.			
P391	Collect spillage.			

Precautionary statement(s) Storage

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		solder wire consisting of,			
7440-31-5	<=75	tin			
7439-92-1	<=50	lead			
65997-06-0	<=3	rosin, hydrogenated			
Not Available		which upon use generates			

Continued...

Solder Wire, Sn63/Pb37, CX18, No Clean

CAS No	%[weight]	Name				
7440-31-5		tin fume				
7439-92-1.		lead fumes				
Legend:	 Classified by Chernwatch; 2. Classification drawn from CCID EPA NZ; 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	 If this product comes in contact with the eyes: Immediately hold eyelids apart and flush the eye continuously with running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. Transport to hospital or doctor without delay. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel. Particulate bodies from welding spatter may be removed carefully. 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. For "arc eye", i.e. welding flash or UV light burns to the eye: Place eye pads or light clean dressings over both eyes. Seek medical assistance. For THERMAL burns: Do NOT remove contact lens 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 dressings over both eyes. Seek medical assistance.
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. For thermal burns: • Decontaminate area around burn. • Consider the use of cold packs and topical antibiotics. For first-degree burns (affecting top layer of skin) • Hold burned skin under cool (not cold) running water or immerse in cool water until pain subsides. • Use compresses if running water is not available. • Cover with sterile non-adhesive bandage or clean cloth. • Do NOT apply butter or ointments; this may cause infection. • Give over-the counter pain relievers if pain increases or swelling, redness, fever occur. For second-degree burns (affecting top two layers of skin) • Cool the burn by immerse in cold running water for 10-15 minutes. • Use compresses if running water is not available. • Do NOT apply butters or apply butter or ointments; this may cause infection. • Do NOT apply ice as this may lower body temperature and cause further damage. • Do NOT apply ice as this may lower body temperature and cause further damage. • Do NOT apply cover loosely with sterile, nonstick bandage and secure in place with gauze or tape. To prevent shock: (unless the person hat. • Elevate burn by cover loosely with sterile, nonstick bandage and secure in place with gauze or tape. To prevent shock: (unless the person hat. • Elevate feet about 12 inches. • Elevate burn area above heart level, if possible. • Cover the person with coat or blanket. • Seek medical assistance. For third-degree burns Seek immediate medical or emergency assistance. In the mean time: • Protect burn area cover loosely with sterile, nonstick bandage or, for large areas, a sheet or other material that will not leave lint in wound. • Separate burned toes and fingers with dry, sterile dressings. • Do not soak burn in water or apply ointments or butter; this may cause infection. • For an airway burn, do not place pillow under the person's head when the person is lying down.
Inhalation	 If fumes or combustion products are inhaled remove from contaminated area. Lay patient down. Keep warm and rested. Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures. Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary. Transport to hospital, or doctor, without delay.
Ingestion	 IF SWALLOWED, REFER FOR MEDICAL ATTENTION, WHERE POSSIBLE, WITHOUT DELAY. For advice, contact a Poisons Information Centre or a doctor.

 Urgent hospital treatment is likely to be needed.
In the mean time, qualified first-aid personnel should treat the patient following observation and employing supportive measures as indicated by the patient's condition.
If the services of a medical officer or medical doctor are readily available, the patient should be placed in his/her care and a copy of the SDS should be provided. Further action will be the responsibility of the medical specialist.
If medical attention is not available on the worksite or surroundings send the patient to a hospital together with a copy of the SDS.
Where medical attention is not immediately available or where the patient is more than 15 minutes from a hospital or unless instructed otherwise:
 INDUCE vomiting with fingers down the back of the throat, ONLY IF CONSCIOUS. Lean patient forward or place on left si (head-down position, if possible) to maintain open airway and prevent aspiration.
NOTE: Wear a protective glove when inducing vomiting by mechanical means.
▶ Generally not applicable.

Indication of any immediate medical attention and special treatment needed

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]

- Gastric acids solubilise lead and its salts and lead absorption occurs in the small bowel.
- Particles of less than 1 um diameter are substantially absorbed by the alveoli following inhalation.
- Lead is distributed to the red blood cells and has a half-life of 35 days. It is subsequently redistributed to soft tissue & bone-stores or eliminated. The kidney accounts for 75% of daily lead loss; integumentary and alimentary losses account for the remainder.
- Neurasthenic symptoms are the most common symptoms of intoxication. Lead toxicity produces a classic motor neuropathy. Acute encephalopathy appears infrequently in adults. Diazepam is the best drug for seizures.
- Whole-blood lead is the best measure of recent exposure; free erythrocyte protoporphyrin (FEP) provides the best screening for chronic exposure. Obvious clinical symptoms occur in adults when whole-blood lead exceeds 80 ug/dL.
- British Anti-Lewisite is an effective antidote and enhances faecal and urinary excretion of lead. The onset of action of BAL is about 30 minutes and most of the chelated metal complex is excreted in 4-6 hours, primarily in the bile. Adverse reaction appears in up to 50% of patients given BAL in doses exceeding 5 mg/kg. CaNa2EDTA has also been used alone or in concert with BAL as an antidote. D-penicillamine is the usual oral agent for mobilisation of bone lead; its use in the treatment of lead poisoning remains investigational. 2,3-dimercapto-1-propanesulfonic acid (DMPS) and dimercaptosuccinic acid (DMSA) are water soluble analogues of BAL and their effectiveness is undergoing review. As a rule, stop BAL if lead decreases below 50 ug/dL; stop CaNa2EDTA if blood lead decreases below 40 ug/dL or urinary lead drops below 2 mg/24hrs.

[Ellenhorn & Barceloux: Medical Toxicology]

BIOLOGICAL EXPOSURE INDEX - BEI

These represent the determinants observed in specimens collected from a healthy worker who has been exposed at the Exposure Standard (ES or TLV):

Determinant	Index	Sampling Time	Comments
1. Lead in blood	30 ug/100 ml	Not Critical	
2. Lead in urine	150 ug/gm creatinine	Not Critical	В
3. Zinc protoporphyrin in blood	250 ug/100 ml erythrocytes OR 100 ug/100 ml blood	After 1 month exposure	В

B: Background levels occur in specimens collected from subjects NOT exposed.

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

- Fire Incompatibility
- Avoid strong acids, acid chlorides, acid anhydrides and chloroformates.
 Avoid reaction with oxidising agents

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. Equipment should be thoroughly decontaminated after use. Slight hazard when exposed to heat, flame and oxidisers.
Fire/Explosion Hazard	 Welding arc and metal sparks can ignite combustibles. Non combustible. Not considered to be a significant fire risk, however containers may burn. In a fire may decompose on heating and produce toxic / corrosive fumes.

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. Wear impervious gloves and safety glasses. Use dry clean up procedures and avoid generating dust. Place in suitable containers for disposal.
Major Spills	 Minor hazard. Clear area of personnel. Alert Fire Brigade and tell them location and nature of hazard. Control personal contact with the substance, by using protective equipment if risk of overexposure exists. Prevent, by any means available, spillage from entering drains or water courses. 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. Clean up/sweep up area. Water may be required. If contamination of drains or waterways occurs, advise emergency services.

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

SECTION 7 Handling and storage

Precautions for safe handling

	5
Safe handling	 For molten metals: Molten metal and water can be an explosive combination. The risk is greatest when there is sufficient molten metal to entrap of seal off water. Water and other forms of contamination on or contained in scrap or remetl ingot are known to have caused explosions in melting operations. While the products may have minimal surface roughness and internal voids, there remains the possibility of moisture contamination or entrapment. If confined, even a few drops can lead to violent explosions. All tooling, containers, molds and ladles, which come in contact with molten metal must be preheated or specially coated, rust free and approved for such use. Any surfaces that may contact molten metal (e.g. concrete) should be specially coated Drops of molten metal in water (e.g. from plasma arc cutting), while not normally an explosion hazard, can generate enough flammable hydrogen gas to present an explosion hazard. Vigorous circulation of the water and removal of the particles minimise the hazard. During melting operations, the following minimum guidelines should be observed: Inspect all materials prior to furnace charging and completely remove surface contamination such as water, ice, snow, deposit of grease and oil or other surface contamination resulting from weather exposure, shipment, or storage. Store materials in dry, heated areas with any cracks or cavities pointed downwards. Preheat and dry large objects adequately before charging in to a furnace containing molten metal. This is typically done by the use of a drying oven or homogenising furnace. The dry cycle should bring the metal temperature of the coldest item of the batch to 200 degree C (400 deg F) and then hold at that temperature for 6 hours. Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Prevent concentration in hollows and sumps. <li< th=""></li<>

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Version No: 2.1		
	 Keep containers securely sealed when not in use. Avoid physical damage to containers. Always wash hands with soap and water after handling. 	
	 Work clothes should be laundered separately. Launder contaminated clothing before re-use. Use good occupational work practice. Observe manufacturer's storage and handling recommendations contained within this SDS. 	
	 Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained. 	
Other information	 Store in original containers. Keep containers securely sealed. Store in a cool, dry, well-ventilated area. Store owny from incompatible motoriale and foodstuff containers. 	
	 Store away from incompatible materials and foodstuff containers. Protect containers against physical damage and check regularly for leaks. Observe manufacturer's storage and handling recommendations contained within this SDS. 	

Conditions for safe storage, including any incompatibilities

 Packaging as recommended by manufacturer. Check that containers are clearly labelled 					
 Avoid reaction wit 	h oxidising ag	ents			
3	Avoid reaction wit	Avoid reaction with oxidising ag	Avoid reaction with oxidising agents	Avoid reaction with oxidising agents	Avoid reaction with oxidising agents

 \mathbf{X} — Must not be stored together

0 — May be stored together with specific preventions

+ — May be stored together

Note: Depending on other risk factors, compatibility assessment based on the table above may not be relevant to storage situations, particularly where large volumes of dangerous goods are stored and handled. Reference should be made to the Safety Data Sheets for each substance or article and risks assessed accordingly.

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	tin	Tin, metal	2 mg/m3	Not Available	Not Available	Not Available
New Zealand Workplace Exposure Standards (WES)	tin	Respirable dust (not otherwise classified)	3 mg/m3	Not Available	Not Available	Not Available
New Zealand Workplace Exposure Standards (WES)	tin	Inhalable dust (not otherwise classified)	10 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	lead	Lead, inorganic dusts & fumes (as Pb)	0.05 mg/m3	Not Available	Not Available	Not Available
New Zealand Workplace Exposure Standards (WES)	lead	Respirable dust (not otherwise classified)	3 mg/m3	Not Available	Not Available	Not Available
New Zealand Workplace Exposure Standards (WES)	lead	Lead, inorganic dusts and fumes, as Pb	0.05 mg/m3	Not Available	Not Available	carcinogen category 2 - Suspected human carcinogen (bio) - Exposure can also be estimated by biological monitoring oto - Ototoxin
New Zealand Workplace Exposure Standards (WES)	lead	Inhalable dust (not otherwise classified)	10 mg/m3	Not Available	Not Available	Not Available
New Zealand Workplace Exposure Standards (WES)	rosin, hydrogenated	Respirable dust (not otherwise classified)	3 mg/m3	Not Available	Not Available	Not Available
New Zealand Workplace Exposure Standards (WES)	rosin, hydrogenated	Inhalable dust (not otherwise classified)	10 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	tin fume	Tin, metal	2 mg/m3	Not Available	Not Available	Not Available

Continued...

Part Number:

Solder Wire, Sn63/Pb37, CX18, No Clean

Version No: 2.1 Source Ingredient Material name TWA STEL Peak Notes Respirable dust New Zealand Workplace 3 Not Not (not otherwise Not Available tin fume Exposure Standards (WES) mg/m3 Available Available classified) Inhalable dust (not New Zealand Workplace 10 Not Not tin fume otherwise Not Available Exposure Standards (WES) Available Available mg/m3 classified) Lead, inorganic Australia Exposure 0.05 Not Not lead fumes dusts & fumes (as Not Available Available Available Standards mg/m3 Pb) carcinogen category 2 - Suspected human Lead, inorganic New Zealand Workplace 0.05 Not Not carcinogen (bio) - Exposure can also be lead fumes dusts and fumes, Exposure Standards (WES) mg/m3 Available Available estimated by biological monitoring oto as Pb Ototoxin Respirable dust New Zealand Workplace 3 Not Not lead fumes (not otherwise Not Available Available Available Exposure Standards (WES) ma/m3 classified) Inhalable dust (not New Zealand Workplace 10 Not Not lead fumes otherwise Not Available Exposure Standards (WES) mg/m3 Available Available classified)

Emergency Limits

Ingredient	TEEL-1	TEEL-2	TEEL-3
tin	6 mg/m3	67 mg/m3	400 mg/m3
lead	0.15 mg/m3	120 mg/m3	700 mg/m3
tin fume	6 mg/m3	67 mg/m3	400 mg/m3
lead fumes	0.15 mg/m3	120 mg/m3	700 mg/m3

Ingredient	Original IDLH	Revised IDLH
tin	Not Available	Not Available
lead	Not Available	Not Available
rosin, hydrogenated	Not Available	Not Available
tin fume	Not Available	Not Available
lead fumes	Not Available	Not Available

Exposure controls

Appropriate engineering Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed controls 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. For brazing or soldering the nature of ventilation is determined by the location of the work. • For outdoor work, natural ventilation is generally sufficient. For indoor work, conducted in either open or limited spaces, use mechanical (general exhaust or plenum) ventilation. (Open work spaces exceed 300 cubic meters per welder) For work conducted in confined spaces, mechanical ventilation, using local exhaust systems, is required. (In confined spaces always check that oxygen has not been depleted by excessive rusting of steel or snowflake corrosion of aluminium) Mechanical or local exhaust ventilation may not be required where the process working time does not exceed 24 mins. (in an 8 hr. shift) provided the work is intermittent (a maximum of 5 mins. every hour). Local exhaust systems must be designed to provide a minimum capture velocity at the fume source, away from the worker, of 0.5 metre/sec. Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to effectively remove the contaminant. Air Speed: Type of Contaminant: 0.5-1,0 m/s welding, brazing fumes (released at relatively low velocity into moderately still air) (100-200 f/min.) Within each range the appropriate value depends on: Lower end of the range Upper end of the range 1: Room air currents minimal or favourable to capture 1: Disturbing room air currents 2: Contaminants of low toxicity or of nuisance value only. 2: Contaminants of high toxicity

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	3: Intermittent, low production.	3: High production, heavy use	
	4: Large hood or large air mass in motion	4: Small hood-local control only	
	generally decreases with the square of distance from the extraction point should be adjusted, accordingly, after extraction fan, for example, should be a minimum of 1 generated 2 meters distant from the extraction point.	listance away from the opening of a simple extraction pipe. Velocity ne extraction point (in simple cases). Therefore the air speed at the eference to distance from the contaminating source. The air velocity 2 m/s (200-400 f/min.) for extraction of welding or brazing fumes ther mechanical considerations, producing performance deficits with air velocities are multiplied by factors of 10 or more when extraction	
Individual protection measures, such as personal protective equipment			
Eye and face protection	 Goggles or other suitable eye protection shall be used during all gas welding or oxygen cutting operations. Spectacles without side shields, with suitable filter lenses are permitted for use during gas welding operations on light work, for torch brazing or for inspection. For most open welding/brazing operations, goggles, even with appropriate filters, will not afford sufficient facial protection for operators. Where possible use welding helmets or handshields corresponding to EN 175, ANSI Z49:12005, AS 1336 and AS 1338 which provide the maximum possible facial protection from flying particles and fragments. [WRIA-WTIA Technical Note 7] An approved face shield or welding helmet can also have filters for optical radiation protection, and offer additional protection against debris and sparks. UV blocking protective spectacles with side shields or welding goggles are considered primary protection, with the face shield or welding helmet considered secondary protection. The optical filter in welding goggles, face mask or helmet must be a type which is suitable for the sort of work being done.A filter suitable for gas welding, for instance, should not be used for arc welding. Face masks which are self dimming are available for arc welding, MIG, TIG and plasma cutting, and allow better vision before the arc is struck and after it is extinguished. Welding helmet with suitable filter. Welding hand shield with suitable filter. 		
Skin protection	See Hand protection below		
Hands/feet protection	 Welding gloves conforming to Standards such as EN 12477:2001, ANSI Z49.1, AS/NZS 2161:2008 produced from leather, rubber, treated cotton,or alumininised These gloves protect against mechanical risk caused by abrasion, blade cut, tear and puncture Other gloves which protect against thermal risks (heat and fire) might also be considered - these comply with different standards to those mentioned above. One pair of gloves may not be suitable for all processes. For example, gloves that are suitable for low current Gas Tungsten Arc Welding (GTAW) (thin and flexible) would not be proper for high-current Air Carbon Arc Cutting (CAC-A) (insulated, tough, and durable) Welding Gloves Safety footwear 		
Body protection	See Other protection below		
Other protection	 Welding sites must be adequately shielded with screen and ceiling levels. During repair or maintenance activities the potential of standards. Under these circumstances, protecting wor the combined use of ventilation, wet and vacuum clear clothing, and when necessary, restricted work zones. Protective over-garments or work clothing must be w activities such as machining, furnace rebuilding, air clear Contaminated work clothing and over-garments must be workers of third parties, to prevent the spread of partice workers. Personnel who handle and work with molten metal sh resistant tapper's jackets, neck shades (snoods), leggi primary protection, secondary or day-to-day work cloth with molten metal. Synthetic materials should never be 	ided for all personnel within 10 metres of any open arc welding oper s of non flammable materials. Screens should permit ventilation at fl xists for exposures to toxic metal particulate in excess of the occupa ters can require the use of specific work practices or procedures invo- ing methods, respiratory protection, decontamination, special protec- orn by persons who may become contaminated with particulate durin aning equipment filter changes, maintenance, furnace tending, etc. e managed in a controlled manner to prevent secondary exposure to alate to other areas, and to prevent particulate from being taken hom ould utilise primary protective clothing like polycarbonate face shield hgs, spats and similar equipment to prevent burn injuries. In addition ing that is fire resistant and sheds metal splash is recommended for worn even as secondary clothing (undergarments). pliable flame resistant leather or other suitable materials may also b	loor ational olving ctive ng o ne by ds, fire use

Respiratory protection

Type A-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, 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	A-AUS P2	-	A-PAPR-AUS / Class 1 P2
up to 50 x ES	-	A-AUS / Class 1 P2	-
up to 100 x ES	-	A-2 P2	A-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)

SECTION 9 Physical and chemical properties

nformation on basic phys	ical and chemical properties		
Appearance	Colourless solid wire; does not mix with water. Massive form of the metal. Massive or bulk metals (as opposed to disperse metal atoms. Massive metals exist in various fo	/	, .
Physical state	Manufactured	Relative density (Water = 1)	Not Applicable
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 (°C)	Not Available
Melting point / freezing point (°C)	183-302	Viscosity (cSt)	Not Applicable
Initial boiling point and boiling range (°C)	Not Applicable	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

SECTION 10 Stability and reactivity

Solubility in water

Vapour density (Air = 1)

Immiscible

Not Applicable

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

pH as a solution (1%)

VOC g/L

Not Applicable

Not Applicable

SECTION 11 Toxicological information

Information on toxicological effects

Inhaled	The material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage. Component metals which form part of massive metals and their alloys are "locked" into a metal lattice, and as a result they are not easily absorbed following inhalation. Secondary processes (for example, a change in pH or the action of bacteria in the gut) may allow certain substances to be released in low concentrations. Fumes evolved during welding operations may be irritating to the upper-respiratory tract and may be harmful if inhaled.
Ingestion	Not normally a hazard due to physical form of product. Metals which form part of massive metals and their alloys, are "locked" into a metal lattice; as a result they are not readily bioavailable following ingestion. Secondary processes (e.g. change in pH or intervention by gastrointestinal microorganisms) may allow certain substances to be released in low concentrations.
Skin Contact	Skin contact is not thought to produce harmful health effects (as classified under EC Directives using animal models). Systemic harm, however, has been identified following exposure of animals by at least one other route and the material may still produce health damage following entry through wounds, lesions or abrasions.

lead fumes

Inhalation (Rat) LC50: >5.05 mg/l4h^[1] Oral (Rat) LD50: >2000 mg/kg^[1]

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Part Number: Version No: 2.1	Solder Wire, Sn63/Pb37, 0	CX18, No Clean	Print Date: 02/04/202
Eye	Ultraviolet (UV) radiation is generated by the electric often without prior burning. Exposure to infrared (IR) irritation, produced by the e the tissues immediately below the surface. Except for radiation is not dangerous to welders. Most welders a Open cuts, abraded or irritated skin should not be ex This material can cause eye irritation and damage in Contact with the eye by metal dusts may cause scrat foreign body penetration of the eyeball may cause int High-speed machines (such as drills and saws) can p white-hot particles can enter the unprotected eye, an of the eye can cause infection (endophthalmitis). During the first hours after injury, symptoms of foreign However, people with foreign bodies within the eye m although this may not be noticeable if the foreign body Ultraviolet (UV) radiation can damage the lens of the is a sensation of sand in the eyes. The condition is ca also increase the skin effects of some industrial chem	lectric arc and other flame cutting equipment this effect, which can progress to thermal b are protected by a welder s helmet (or glasse bosed to this material some persons. ching on the cornea and other injuries, which ection or result in permanent loss of vision. produce white-hot particles of metal that rese d become embedded deep within it. Foreign n bodies within the eye may be similar to tho hay also have a noticeable loss of vision. Flu y is small. Pain may also increase after the f eye. Many arc welders experience the cond aused by excessive eye exposure to UV. Exp	t, may heat the skin surface and urns in some situations, infrared as) and protective clothing. In are usually minor. However, emble sparks. Any of these bodies that penetrate the inside se of scratching of the cornea. id may leak from the eye, first few hours. ition known as "arc-eye", which posure to ultraviolet rays may
	Eye exposure to intense visible light is prevented, for without eye protection.	the most part, by the welder s helmet. The a	arc should never be observed
Chronic	Principal route of exposure is inhalation of welding fur electrode core and flux appear as welding fume depe- coatings on the workpiece. Studies of lung cancer an compared to the general population. Since smoking a influence these results, it is not clear whether welding represents little risk, the stainless steel welder, expos- may account for the overall increase in lung cancer in Other welding process exposures can arise from radi The welding arc emits ultraviolet radiation at wavelen exposed individuals, however, no confirmatory studie Metal oxides generated by industrial processes such smaller than 5 microns in diameter (which may be bru- microns can be trapped in the lungs, and, depending consequences. Ozone is suspected to produce lung cancer in labora human populations.	nding on welding conditions, relative volatilit nong welders indicate that they may experier and exposure to other cancer-causing agents by, in fact, represents a significant lung cance weld to chromium and nickel fume, may be at incidence among welders. Cold isolated elect ant energy UV flash burns, thermal burns or gths that have the potential to produce skin s of this effect in welders have been reporter as welding may cause a number of potentia eathed in) may cause reduction in lung funct on the nature of the particle, may cause furt	ties of metal oxides and any nee a 30-40% increased risk s, such as asbestos fibre, may r risk. Whilst mild steel welding risk and it is this factor which rodes are relatively harmless. electric shock tumours in animals and in over- d. I health problems. Particles ion. Particles of less than 1.5 her serious health
Solder Wire, Sn63/Pb37,	ΤΟΧΙΟΙΤΥ	IRRITATION	
CX18, No Clean	Not Available	Not Available	
	τοχιςιτγ	IRRITATION	
	dermal (rat) LD50: >2000 mg/kg ^[1]	Eye: no adverse effect observe	ed (not irritating) ^[1]
tin	Inhalation (Rat) LC50: >4.75 mg/l4h ^[1]	Skin: no adverse effect observ	ed (not irritating) ^[1]
	Oral (Rat) LD50: >2000 mg/kg ^[1]		
	ΤΟΧΙCITY	IRRITATION	
	dermal (rat) LD50: >2000 mg/kg ^[1]	Not Available	
lead	Inhalation (Rat) LC50: >5.05 mg/l4h ^[1]		
	Oral (Rat) LD50: >2000 mg/kg ^[1]		
	ΤΟΧΙCΙΤΥ	IRRITATION	
rosin, hydrogenated	dermal (rat) LD50: >2000 mg/kg ^[1]	Eye: no adverse effect observe	ed (not irritating) ^[1]
	Oral (Rat) LD50: >1000 mg/kg ^[1]	Skin: no adverse effect observ	ed (not irritating) ^[1]
	ΤΟΧΙΟΙΤΥ	IRRITATION	
	dermal (rat) LD50: >2000 mg/kg ^[1]	Eye: no adverse effect observe	ed (not irritating) ^[1]
tin fume	Inhalation (Rat) LC50: >4.75 mg/l4h ^[1]	Skin: no adverse effect observ	
	Oral (Rat) LD50: >2000 mg/kg ^[1]		
	тохісіту	IRRITATION	
	dermal (rat) LD50: >2000 mg/kg ^[1]	Not Available	
lead fumes			

Legend:	 Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances 		
LEAD	WARNING: Lead is a cumulative poison and has the potential to cause abortion and intellectual impairment to unborn children of pregnant workers.		
LEAD FUMES	WARNING: This substance has been classified by the IARC as Group 2B: Possibly Carcinogenic to Humans.		
TIN & ROSIN, HYDROGENATED & TIN FUME	No significant acute toxicological data identified in literature search.		
Acute Toxicity	*	Carcinogenicity	¥
Skin Irritation/Corrosion	×	Reproductivity	×
Serious Eye Damage/Irritation	×	STOT - Single Exposure	×
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×
Mutagenicity	✓	Aspiration Hazard	×

SECTION 12 Ecological information

Toxicity

Solder Wire, Sn63/Pb37, CX18, No Clean	Endpoint	Test Duration (hr)	Species	Value	Source
	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
tin	EC50	72h	Algae or other aquatic plants	>0.019mg/L	2
tin	NOEC(ECx)	168h	Crustacea	<0.005mg/L	2
	LC50	96h	Fish	>0.012mg/L	2
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	48h	Crustacea	0.029mg/L	2
lead	EC50	96h	Algae or other aquatic plants	0.282- 0.864mg/l	4
	EC50	72h	Algae or other aquatic plants	0.021mg/L	2
	NOEC(ECx)	672h	Fish	0.00003mg/l	4
	LC50	96h	Fish	0.008mg/L	2
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	48h	Crustacea	3.8mg/l	2
recip budgegeneted	EC50	96h	Algae or other aquatic plants	0.031mg/l	2
rosin, hydrogenated	NOEC(ECx)	96h	Algae or other aquatic plants	0.013mg/l	2
	EC50	72h	Algae or other aquatic plants	>10<20mg/l	2
	LC50	96h	Fish	1.5mg/l	2
	Endpoint	Test Duration (hr)	Species	Value	Source
tin from a	EC50	72h	Algae or other aquatic plants	>0.019mg/L	2
tin fume	NOEC(ECx)	168h	Crustacea	<0.005mg/L	2
	LC50	96h	Fish	>0.012mg/L	2
lead fumes	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	48h	Crustacea	0.029mg/L	2
	EC50	96h	Algae or other aquatic plants	0.282- 0.864mg/l	4
	EC50	72h	Algae or other aquatic plants	0.021mg/L	2
	NOEC(ECx)	672h	Fish	0.00003mg/l	4
	LC50	96h	Fish	0.008mg/L	2

Continued...

Solder Wire, Sn63/Pb37, CX18, No Clean

 Legend:
 Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity

 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

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. **DO NOT** discharge into sewer or waterways.

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
	No Data available for all ingredients
Mobility in soil	
Ingredient	Mobility
	No Data available for all ingredients

SECTION 13 Disposal considerations

Waste treatment methods

waste treatment methods	
Product / Packaging disposal	 Recycle wherever possible or consult manufacturer for recycling options. Consult State Land Waste Management Authority for disposal. Metal scrap recycling operations present a wide variety of hazards, including health hazards associated with chemical exposures and safety hazards associated with netrical processing operations and the equipment used in these tasks. Many of these metals do not pose any hazard to people who handle objects containing the metal in everyday use. In cases where employees could be exposed to multiple hazardous metals or other hazardous substances at the same time or during the same workday, employers must consider the combine defects of the exposure in determining safe exposure levels. The recycling of scrap metals is associated with repeated trauma, skin diseases or disorders, and respiratory conditions due to inhalation of, or other contact with, toxic agents. The most common events or exposures leading to these cases were contact with an object or piece of equipment; overextension; and exposure to a harmful substance. The most common types of these injuries were sprains and strains; heat burns; and cuts, lacerations, and punctures. Any combustible material can burn rapidly when in a finely divided form. If such a dust is suspended in air in the right concentration, under certain conditions, it can become explosible. Even materials that do not burn in larger pieces (such as aluminum or iron), given the proper conditions, can be explosible in dust form. The force from such an explosion can cause employee deaths, injuries, and destruction of entire buildings. Breaking apat large metal pieces may involve the use of gas cutting torch. Classic cutting torches use gas, while other torches use plasma or powder, or even water. Thermal (gas) torches expose employees to sprays of sparks and metal dust particles, to high temperatures, to bright light that could damage eyes (light both inside and outside of
	Many scrap metal recycling operations heat scrap pieces to high temperatures to separate different metal components, increase the purity of scrap, bake out non-metal substances, burn off contaminants, remove insulation from wire, or otherwise process the metal scrap. This may be done using furnaces or ovens that use fuel or electrical heating sources. Furnaces generate smoke, dust, and metal fumes, depending on temperature and content. Combustion by-products may include sulfur and nitrogen oxides, and carbon monoxide and carbon dioxide. Organic compounds may be emitted as heating vapourises oil and grease on scraps. In addition, heating or burning of certain plastics (such as plastic-coated wiring) may release phosgene or other hazardous
	probable emissions from these processes include metal fumes and vapours, organic vapours, and acid gases. Other potential hazards may include high amounts of heat, splashing of caustic or other-wise hazardous chemicals, or combustion hazards.

The recycling of scrap metals or metals found in e-waste (such as printed circuit boards) may present a significant environmental and human health risk. These may contain heavy metals such as cadmium, cobalt, chrome, copper, nickel, lead and zinc. Roads and premises of nearby public facilities such as a school-yard and outdoor food market have been shown to be adversely impacted by the uncontrolled recycling activity. Heavy metal concentrations, especially lead and copper, in workshop and road dusts were found to be severely enriched, posing potential health risks, especially to children.

Ensure that the hazardous substance is disposed in accordance with the Hazardous Substances (Disposal) Notice 2017

Disposal Requirements

Packages that have been in direct contact with the hazardous substance must be only disposed if the hazardous substance was appropriately removed and cleaned out from the package. The package must be disposed according to the manufacturer's directions taking into account the material it is made of. Packages which hazardous content have been appropriately treated and removed may be recycled.

The hazardous substance must only be disposed if it has been treated by a method that changed the characteristics or composition of the substance and it is no longer hazardous.

Only dispose to the environment if a tolerable exposure limit has been set for the substance.

Only deposit the hazardous substance into or onto a landfill or sewage facility or incinerator, where the hazardous substance can be handled and treated appropriately.

SECTION 14 Transport information

Labels Required Marine Pollutant HAZCHEM Not Applicable

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

Land transport (UN): 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

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

Not Applicable

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

Product name	Group
tin	Not Available
lead	Not Available
rosin, hydrogenated	Not Available
tin fume	Not Available
lead fumes	Not Available

14.7.3. Transport in bulk in accordance with the IGC Code

Product name	Ship Type
tin	Not Available
lead	Not Available
rosin, hydrogenated	Not Available
tin fume	Not Available
lead fumes	Not Available

SECTION 15 Regulatory information

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

This substance is to be managed using the conditions specified in an applicable Group Standard

HSR Number	Group Standard
HSR002504	Additives Process Chemicals and Raw Materials Acutely Toxic Carcinogenic Group Standard 2020
HSR002613	Metal Industry Products Acutely Toxic Carcinogenic Group Standard 2020
HSR002625	N.O.S. Acutely Toxic Carcinogenic Group Standard 2020

'art Number: /ersion No: 2.1	Solder Wire, Sn63/Pb37, CX18, No Clean			
HSR Number	Group Standard			
HSR002671	Surface Coatings and Colourants Acutely Toxic Carcinogenic Group Standard 2020			
HSR100425	Pharmaceutical Active Ingredients Group Standard 2020			
HSR002592	Industrial and Institutional Cleaning Products Acutely Toxic Carcinogenic Group Standard 2020			
HSR100757	Veterinary Medicines Limited Pack Size Finished Dose Group Standard 2020			
HSR100758	Veterinary Medicines Non dispersive Closed System Application Group Standard 2020			
HSR100759	Veterinary Medicines Non dispersive Open System Application Group Standard 2020			
Please refer to Section 8	3 of the SDS for any applicable tolerable exposure limit or Section 12 for environmental exposure limit.			
Australian Inventory of I	ndustrial Chemicals (AIIC)			
	of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)			
	s Substances and New Organisms (HSNO) Act - Classification of Chemicals			
	s Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data			
New Zealand Inventory	of Chemicals (NZIoC)			
New Zealand Land Tran	sport Rule: Dangerous Goods 2005 - Schedule 1 Quantity limits for dangerous goods			
New Zealand Workplace	Exposure Standards (WES)			
lead is found on the fo	llowing regulatory lists			
Australia Hazardous Ch	emical Information System (HCIS) - Hazardous Chemicals			
Australia Standard for th	e Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 4			
Australian Inventory of In	ndustrial Chemicals (AIIC)			
Chemical Footprint Proje	ect - Chemicals of High Concern List			
International Agency for	Research on Cancer (IARC) - Agents Classified by the IARC Monographs			
International Agency for	Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 1: Carcinogenic to humans			
International Agency for	Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 2B: Possibly carcinogenic to humans			
International WHO List of	of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)			
New Zealand Approved	Hazardous Substances with controls			
New Zealand Hazardous	s Substances and New Organisms (HSNO) Act - Classification of Chemicals			
New Zealand Hazardous	s Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data			
New Zealand Inventory	of Chemicals (NZIoC)			

New Zealand Inventory of Chemicals (NZIoC)

New Zealand Workplace Exposure Standards (WES)

rosin, hydrogenated is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australian Inventory of Industrial Chemicals (AIIC)

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

New Zealand Inventory of Chemicals (NZIoC)

New Zealand Workplace Exposure Standards (WES)

tin fume is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data

New Zealand Inventory of Chemicals (NZIoC)

New Zealand Workplace Exposure Standards (WES)

lead fumes is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 4

Australian Inventory of Industrial Chemicals (AIIC)

Chemical Footprint Project - Chemicals of High Concern List

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 1: Carcinogenic to humans

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 2B: Possibly carcinogenic to humans

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

New Zealand Approved Hazardous Substances with controls

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data

New Zealand Inventory of Chemicals (NZIoC)

New Zealand Land Transport Rule: Dangerous Goods 2005 - Schedule 1 Quantity limits for dangerous goods

New Zealand Workplace Exposure Standards (WES)

Solder Wire, Sn63/Pb37, CX18, No Clean

Additional Regulatory Information

Not Applicable

Hazardous Substance Location

Subject to the Health and Safety at Work (Hazardous Substances) Regulations 2017.

Hazard Class	Quantity (Compliance Certificate)	Quantity (Compliance Certificate - Farms >4 ha)
6.1C	1000 kg or 1000 L	3500 kg or 3500 L

Certified Handler

Subject to Part 4 of the Health and Safety at Work (Hazardous Substances) Regulations 2017.

Class of substance	Quantities
Not Applicable	Not Applicable

Refer Group Standards for further information

Maximum quantities of certain hazardous substances permitted on passenger service vehicles

Subject to Regulation 13.14 of the Health and Safety at Work (Hazardous Substances) Regulations 2017.

Hazard Class	Gas (aggregate water capacity in mL)	Liquid (L)	Solid (kg)	Maximum quantity per package for each classification
6.1C	120	1	3	

Tracking Requirements

Not Applicable

National Inventory Status

National Inventory	Status
Australia - AIIC / Australia Non-Industrial Use	Yes
Canada - DSL	Yes
Canada - NDSL	No (tin; lead; rosin, hydrogenated; tin fume; lead fumes)
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	Yes
Japan - ENCS	No (tin; lead; tin fume; lead fumes)
Korea - KECI	Yes
New Zealand - NZIoC	Yes
Philippines - PICCS	Yes
USA - TSCA	Yes
Taiwan - TCSI	Yes
Mexico - INSQ	Yes
Vietnam - NCI	Yes
Russia - FBEPH	No (rosin, hydrogenated)
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	26/03/2024
Initial Date	26/03/2024

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.

end of SDS

Solder Wire, Sn63/Pb37, CX18, No Clean