

RS - 3% Silver No Clean Solder Wire #756-8875, 756-8884, 756-8893, 756-8897, 756-8913, 800-7642, 800-7649, 800-7655 (NZ)

RS Components

Chemwatch Hazard Alert Code: 2

Issue Date: 26/08/2020 Print Date: 07/09/2020 L.GHS.NZL.EN

Chemwatch: 5422-07

Version No: 2.1.1.1 Safety Data Sheet according to HSNO Regulations

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

Product Identifier

Product name	RS - 3% Silver No Clean Solder Wire #756-8875, 756-8884, 756-8893, 756-8897, 756-8913, 800-7642, 800-7649, 800-7655 (NZ)
Synonyms	Not Available
Other means of identification	Not Available

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

Relevant identified uses

Soldering.

Details of the supplier of the safety data sheet

Registered company name	RS Components
Address	PO Box 12-127 Penrose, Auckland New Zealand
Telephone	+64 27 4747122
Fax	+64 9 579 1700
Website	www.nz.rs-online.com
Email	Not Available

Emergency telephone number

Association / Organisation	CHEMWATCH EMERGENCY RESPONSE	
Emergency telephone numbers	+61 2 9186 1132	
Other emergency telephone numbers	+64 800 700 112	

Once connected and if the message is not in your prefered language then please dial 01

SECTION 2 Hazards identification

Classification of the substance or mixture

Classification [1]	Skin Sensitizer 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	6.5B (contact)

Label elements

Hazard pictogram(s)



Signal word

Warning

Hazard statement(s)

H317	May cause an allergic skin reaction

Precautionary statement(s) Prevention

Treductionary Statement(5) Trevention		
P280	Wear protective gloves/protective clothing/eye protection/face protection.	
P261	Avoid breathing dust/fumes.	

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P272 Contaminated work clothing should not be allowed out of the workplace.

Precautionary statement(s) Response

P321	Specific treatment (see advice on this label).
P302+P352	IF ON SKIN: Wash with plenty of water and soap.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.

Precautionary statement(s) Storage

Not Applicable

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

SECTION 4 First aid measures

Description of first aid measures

Eye Contact	 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. Arc rays can injure eyes
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. Arc rays can burn skin
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.
Ingestion	 If swallowed do NOT induce vomiting. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Observe the patient carefully. Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. Seek medical advice.

Indication of any immediate medical attention and special treatment needed

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]

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SECTION 5 Firefighting measures

Extinguishing media

▶ There is no restriction on the type of extinguisher which may be used.

Special hazards arising from the substrate or mixture

Fire Incompatibility

Welding electrodes should not be allowed to come into contact with strong acids or other substances which are corrosive to metals. Welding arc and metal sparks can ignite combustibles.

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.

Fire/Explosion Hazard

- 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	Avoid contact with skin and eyes. 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 as required.

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

SECTION 7 Handling and storage

Precautions for safe handling

Q

- Limit all unnecessary personal contact.
- Wear protective clothing when risk of exposure occurs.
- Use in a well-ventilated area.
- Avoid contact with incompatible materials.

Other information

- Keep dry.
- Store under cover.
- Protect containers against physical damage.
- ▶ Observe manufacturer's storage and handling recommendations contained within this SDS.

Conditions for safe storage, including any incompatibilities

Suitable container

- Packaging as recommended by manufacturer.
- Check that containers are clearly labelled
- Storage incompatibility
- Avoid reaction with oxidising agents

SECTION 8 Exposure controls / personal protection

Control parameters

Occupational Exposure Limits (OEL)

INGREDIENT DATA

INGREDIENT DATA						
Source	Ingredient	Material name	TWA	STEL	Peak	Notes
New Zealand Workplace Exposure Standards (WES)	tin	Tin metal	2 mg/m3	Not Available	Not Available	Not Available
New Zealand Workplace Exposure Standards (WES)	copper	Copper fume Dusts and mists, as Cu	0.2; 1 mg/m3	Not Available	Not Available	Not Available
New Zealand Workplace Exposure Standards (WES)	silver	Silver metal	0.1 mg/m3	Not Available	Not Available	Not Available
New Zealand Workplace Exposure Standards (WES)	tin fume	Tin metal	2 mg/m3	Not Available	Not Available	Not Available
New Zealand Workplace Exposure Standards (WES)	copper fume	Copper fume Dusts and mists, as Cu	0.2; 1 mg/m3	Not Available	Not Available	Not Available

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Emergency Limits

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
tin	Tin	6 mg/m3	67 mg/m3	400 mg/m3
copper	Copper	3 mg/m3	33 mg/m3	200 mg/m3
silver	Silver	0.3 mg/m3	170 mg/m3	990 mg/m3
tin fume	Tin	6 mg/m3	67 mg/m3	400 mg/m3
copper fume	Copper	3 mg/m3	33 mg/m3	200 mg/m3

Ingredient	Original IDLH	Revised IDLH
tin	Not Available	Not Available
rosin, polymerised	Not Available	Not Available
copper	100 mg/m3	Not Available
silver	10 mg/m3	Not Available
rosin core solder decomposition products	Not Available	Not Available
tin fume	Not Available	Not Available
copper fume	100 mg/m3	Not Available

Occupational Exposure Banding

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit
rosin core solder decomposition products	D	> 0.1 to ≤ 1 ppm
Notes:	Occupational exposure banding is a process of assigning chemicals into s adverse health outcomes associated with exposure. The output of this pro range of exposure concentrations that are expected to protect worker hea	cess is an occupational exposure band (OEB), which corresponds to a

MATERIAL DATA

for welding fume:

In addition to complying with any individual exposure standards for specific contaminants, where current manual welding processes are used, the fume concentration inside the welder's helmet should not exceed 5 mg/m3, when collected in accordance with the appropriate standard (AS 3640, for example). ES* TWA: 5 mg/m3

TLV* TWA: 5 mg/m3, B2 (a substance of variable composition)

OES* TWA: 5 mg/m3

Most welding, even with primitive ventilation, does not produce exposures inside the welding helmet above 5 mg/m3. That which does should be controlled (ACGIH). Inspirable dust concentrations in a worker's breathing zone shall be collected and measured in accordance with AS 3640, for example.

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.

If risk of inhalation or overexposure exists, wear SAA approved respirator or work in fume hood.

Personal protection









Eye and face protection

Welding helmet with suitable filter. Welding hand shield with suitable filter.

- Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lens 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.
- Fig. 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.

Skin protection	See Hand protection below
Hands/feet protection	Welding Gloves

Body protection

Overalls

Other protection

Evewash unit.

See Other protection below

Safety footwear

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.

Recommended material(s)

GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:

"Forsberg Clothing Performance Index".

The effect(s) of the following substance(s) are taken into account in the computergenerated selection:

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

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Material	СРІ
BUTYL	A
NEOPRENE	A
NEOPRENE/NATURAL	A
NITRILE	A
PE	A
PE/EVAL/PE	A
PVC	A
TEFLON	A
VITON	A
NATURAL RUBBER	В
NATURAL+NEOPRENE	В

^{*} CPI - Chemwatch Performance Index

NOTE: As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. -

* Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

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 ^

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^ - Full-face

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

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

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Grey solid with characteristic odour; insoluble in water		
Physical state	Manufactured	Relative density (Water = 1)	Not Available
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	>226
pH (as supplied)	Not Applicable	Decomposition temperature	Not Available
Melting point / freezing point (°C)	217-219	Viscosity (cSt)	Not Applicable
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	>115	Taste	Not Available
Evaporation rate	Not Applicable	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Applicable
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Applicable	Gas group	Not Available
Solubility in water	Immiscible	pH as a solution (1%)	Not Applicable
Vapour density (Air = 1)	Not Applicable	VOC g/L	Not Available

SECTION 10 Stability and reactivity

Reactivity	See section 7
Chemical stability	 Unstable in the presence of incompatible materials. Product is considered stable. 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

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion

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Inhaled	Harmful levels of ozone may be found when working in confined spaces. Symptoms of exposure include irritation of the upper membranes of the respiratory tract and lungs as well as pulmonary (lung) changes including irritation, accumulation of fluid (congestion and oedema) and in some cases haemorrhage. Exposure may aggravate any pre-existing lung condition such as bronchitis, asthma or emphysema. Shielding gases may act as simple asphyxiants if significant levels are allowed to accumulate. Oxygen monitoring may be necessary.		
Ingestion	Not normally a hazard due to physical form of product.		
Skin Contact	The material may cause skin irritation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic). This form of dermatitis is often characterised by skin redness (erythema) and swelling epidermis. Histologically there may be intercellular oedema of the spongy layer (spongiosis) and intracellular oedema of the epidermis.		
Еуе	The material may be irritating to the eye, with prolonged contact causing inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis. Fumes from welding/brazing operations may be irritating to the eyes.		
Chronic	individuals, and/or of producing a positive response in e Principal route of exposure is inhalation of welding fume appear as welding fume depending on welding condition cancer among welders indicate that they may experienc exposure to other cancer-causing agents, such as asbera significant lung cancer risk. Welding fume with high levels of ferrous materials may lawhen exposure stops. Chronic exposure to iron dusts me	es from electrodes and workpiece. Reaction products arising from electrode core and flux ns, relative volatilities of metal oxides and any coatings on the workpiece. Studies of lung see a 30-40% increased risk compared to the general population. Since smoking and stos fibre, may influence these results, it is not clear whether welding, in fact, represents lead to particle deposition in the lungs (siderosis) after long exposure. This clears up	
RS - 3% Silver No Clean			
Solder Wire #756-8875, 756-8884, 756-8893, 756-8897,	TOXICITY	IRRITATION	
756-8913, 800-7642, 800-7649, 800-7655 (NZ)	Not Available	Not Available	
	TOXICITY	IRRITATION	
tin	Oral (rat) LD50: >2000 mg/kg ^[1]	Eye: no adverse effect observed (not irritating) ^[1]	
		Skin: no adverse effect observed (not irritating) ^[1]	
	TOXICITY	IRRITATION	
	>2000 mg/kg ^[1]	Eye: no adverse effect observed (not irritating)[1]	
rosin, polymerised	Oral (rat) LD50: >1000 mg/kg ^[1]	Skin: no adverse effect observed (not irritating) ^[1]	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Oral (rat) LD50: >2000 mg/kg ^[1]	, U	
	Oral (rat) LD50: >5000 mg/kg ^[1]		
	TOXICITY	IRRITATION	
	0.12 mg/kg ^[2]	Eye: no adverse effect observed (not irritating) ^[1]	
copper	12 mg/kg ^[2]	Skin: no adverse effect observed (not irritating) ^[1]	
оорры	Oral (mouse) LD50: =.7 mg/kg ^[2]	Chair to data as a most assert ou (the tributanting)	
	Oral (rat) LD50: 5800 mg/kg ^[2]		
	TOXICITY	IRRITATION	
	5000 mg/kg ^[2]	Eye: no adverse effect observed (not irritating) ^[1]	
silver	Oral (rat) LD50: >2000 mg/kg ^[2]	Skin: no adverse effect observed (not irritating)[1]	
Silver	Oral (rat) LD50: >2500 mg/kg ^[1]	OMIT. THE develop effect observed (not initiating).	
	Oral (rat) LD50: 3970 mg/kg ^[1]		
	TOVICITY	IDDITATION	
rosin core solder decomposition products	TOXICITY Not Available	IRRITATION Not Available	
	Not Available	Not Available	
	TOXICITY	IRRITATION	
tin fume	Oral (rat) LD50: >2000 mg/kg ^[1]	Eye: no adverse effect observed (not irritating) ^[1]	
		Skin: no adverse effect observed (not irritating) ^[1]	
	TOXICITY	IRRITATION	
	0.12 mg/kg ^[2]	Eye: no adverse effect observed (not irritating) ^[1]	
copper fume	12 mg/kg ^[2]	Skin: no adverse effect observed (not irritating) ^[1]	
	Oral (mouse) LD50: =.7 mg/kg ^[2]		
	Oral (rat) LD50: 5800 mg/kg ^[2]		
Legend:	1 Value obtained from Europe ECHA Pagistared Subst	tances - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise	
Legena.	specified data extracted from RTECS - Register of Toxic	· · · · · · · · · · · · · · · · · · ·	

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COPPER

WARNING: Inhalation of high concentrations of copper fume may cause "metal fume fever", an acute industrial disease of short duration. Symptoms are tiredness, influenza like respiratory tract irritation with fever.

for copper and its compounds (typically copper chloride):

Acute toxicity: There are no reliable acute oral toxicity results available. In an acute dermal toxicity study (OECD TG 402), one group of 5 male rats and 5 groups of 5 female rats received doses of 1000, 1500 and 2000 mg/kg bw via dermal application for 24 hours. The LD50 values of copper monochloride were 2,000 mg/kg bw or greater for male (no deaths observed) and 1,224 mg/kg bw for female. Four females died at both 1500 and 2000 mg/kg bw, and one at 1,000 mg/kg bw.

The following information refers to contact allergens as a group and may not be specific to this product.

Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type. Other allergic skin reactions, e.g. contact urticaria, involve antibody-mediated immune reactions. The significance of the contact allergen is not simply determined by its sensitisation potential: the distribution of the substance and the opportunities for contact with it are equally important.

rosin core solder decomposition products

Asthma-like symptoms may continue for months or even years after exposure to the material ceases. This may be due to a non-allergenic condition known as reactive airways dysfunction syndrome (RADS) which can occur following exposure to high levels of highly irritating compound. Key criteria for the diagnosis of RADS include the absence of preceding respiratory disease, in a non-atopic individual, with abrupt onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. A reversible airflow pattern, on spirometry, with the presence of moderate to severe bronchial hyperreactivity on methacholine challenge testing and the lack of minimal lymphocytic inflammation, without eosinophilia, have also been included in the criteria for diagnosis of RADS.

The material may produce respiratory tract irritation. Symptoms of pulmonary irritation may include coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and a burning sensation.

Unlike most organs, the lung can respond to a chemical insult or a chemical agent, by first removing or neutralising the irritant and then repairing the damage (inflammation of the lungs may be a consequence).

The repair process (which initially developed to protect mammalian lungs from foreign matter and antigens) may, however, cause further damage to the lungs (fibrosis for example) when activated by hazardous chemicals. Often, this results in an impairment of gas exchange, the primary function of the lungs. Therefore prolonged exposure to respiratory irritants may cause sustained breathing difficulties.

TIN & ROSIN, POLYMERISED & TIN FUME

No significant acute toxicological data identified in literature search.

Acute Toxicity	X	Carcinogenicity	x
Skin Irritation/Corrosion	×	Reproductivity	×
Serious Eye Damage/Irritation	X	STOT - Single Exposure	×
Respiratory or Skin sensitisation	✓	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	×

Legend:

★ – Data either not available or does not fill the criteria for classification

🎺 – Data available to make classification

SECTION 12 Ecological information

Toxicity

RS - 3% Silver No Clean Solder Wire #756-8875.	Endpoint	Test Duration (hr)	Species	Value	Source
756-8884, 756-8893, 756-8897, 756-8913, 800-7642, 800-7649, 800-7655 (NZ)	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
	LC50	96	Fish	>0.0124mg/L	2
tin	EC50	72	Algae or other aquatic plants	0.009-0.846mg/L	2
	NOEC	72	Algae or other aquatic plants	0.001-mg/L	2
	Endpoint	Test Duration (hr)	Species	Value	Source
rosin, polymerised	LC50	96	Fish	>1-mg/L	2
	EC50	48	Crustacea	>2-mg/L	2
	EC50	96	Algae or other aquatic plants	0.031mg/L	2
	NOEC	96	Algae or other aquatic plants	0.013mg/L	2
	Endpoint	Test Duration (hr)	Species	Value	Source
	LC50	96	Fish	0.001-0.06mg/L	2
copper	EC50	48	Crustacea	0.001-0.213mg/L	2
	EC50	72	Algae or other aquatic plants	0.0165mg/L	2
	NOEC	Not Available	Crustacea	0.004mg/L	5
	Endpoint	Test Duration (hr)	Species	Value	Source
	LC50	96	Fish	>0.001-0.93mg/L	2
silver	EC50	48	Crustacea	0.00026mg/L	2
	EC50	72	Algae or other aquatic plants	0.000016mg/L	2
	NOEC	72	Algae or other aquatic plants	0.00003mg/L	2

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	Endpoint	Test Duration (hr)	Species	Value	Source
rosin core solder decomposition products	Not Available	Not Available	Not Available	Not Available	Not Available
tin fume	Endpoint	Test Duration (hr)	Species	Value	Source
	LC50	96	Fish	>0.0124mg/L	2
	EC50	72	Algae or other aquatic plants	0.009-0.846mg/L	2
	NOEC	72	Algae or other aquatic plants	0.001-mg/L	2
	Endpoint	Test Duration (hr)	Species	Value	Source
	LC50	96	Fish	0.001-0.06mg/L	2
copper fume	EC50	48	Crustacea	0.001-0.213mg/L	2
	EC50	72	Algae or other aquatic plants	0.0165mg/L	2
	NOEC	Not Available	Crustacea	0.004mg/L	5
	Extracted from	n 1. IUCLID Toxicity Data 2. Europe ECHA Rec	gistered Substances - Ecotoxicological Infor	mation - Aquatic Toxicity 3. E	PIWIN Su

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

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.

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.

SECTION 14 Transport information

Labels Required

Marine Pollutant	NO
HAZCHEM	Not Applicable

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

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

Not Applicable

SECTION 15 Regulatory information

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

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

HSR Number Group Standard

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Issue Date: **26/08/2020**Print Date: **07/09/2020**

RS - 3% Silver No Clean Solder Wire #756-8875, 756-8884, 756-8893, 756-8897, 756-8913, 800-7642, 800-7649, 800-7655 (NZ)

HSB002284 N.O.S. (Subsidiary Hazard) Group Standard 2017 HSR002535 Gas Under Pressure Mittures (Subsidiary Hazard) Group Standard 2017 HSR002530 Laboratory Chemicals and Reagant Kits Group Standard 2017 HSR002531 Cleaning Products (Subsidiary Hazard) Group Standard 2017 HSR002531 Fuel Additives (Subsidiary Hazard) Group Standard 2017 HSR002531 Animal Nutritional and Animal Care Products Group Standard 2017 HSR002606 Lubricants, Lubricant Additives, Coolants and Anil-freeze Agents (Subsidiary Hazard) Group Standard 2017 HSR002607 Reagent Kits Group Standard 2017 HSR002644 Polymers (Subsidiary Hazard) Group Standard 2017 HSR002647 Reagent Kits Group Standard 2017 HSR002658 Enbaiming Products (Subsidiary Hazard) Group Standard 2017 HSR002638 Photographic Chemicals (Subsidiary Hazard) Group Standard 2017 HSR002656 Embalming Products (Subsidiary Hazard) Group Standard 2017 HSR002657 Dend Agricus (Subsidiary Hazard) Group Standard 2017 HSR002658 Dental Products (Subsidiary Hazard) Group Standard 2017 HSR002659 Dental Products (Subsidiary Hazard) Group Standard 2017 HSR002650 Palamaceutical Active Ingredients Group Standard 2017	HSR Number	Group Standard
HSR002596 Laboratory Chemicals and Reagent Kits Group Standard 2017 HSR002585 Fuel Additives (Subsidiary Hazard) Group Standard 2017 HSR002519 Aerosols (Subsidiary Hazard) Group Standard 2017 HSR002519 Aerosols (Subsidiary Hazard) Group Standard 2017 HSR002521 Animal Nutritional and Animal Care Products Group Standard 2017 HSR002606 Lubricants, Lubricant Additives, Coolants and Anil-freeze Agents (Subsidiary Hazard) Group Standard 2017 HSR002644 Polymers (Subsidiary Hazard) Group Standard 2017 HSR002647 Reagent Kits Group Standard 2017 HSR002667 Surface Costings and Colourants (Subsidiary Hazard) Group Standard 2017 HSR002688 Photographic Chemicals (Subsidiary Hazard) Group Standard 2017 HSR002656 Embalming Products (Subsidiary Hazard) Group Standard 2017 HSR002656 Embalming Products (Subsidiary Hazard) Group Standard 2017 HSR002578 Food Additives and Fragrance Materials (Subsidiary Hazard) Group Standard 2017 HSR002684 Water Treatment Chemicals (Subsidiary Hazard) Group Standard 2017 HSR002657 Fier Fighting Chemicals Group Standard 2017 HSR002657 Fier Fighting Chemicals Group Standard 2017 HSR002660 Leather and Textile Products (Subsidiary Hazard) Group Standard 2017 HSR002671 Fier Fighting Chemicals Group Standard 2017 HSR002684 Refining Catalysts Group Standard 2017 HSR002651 Fertilisers (Subsidiary Hazard) Group Standard 2017 HSR002653 Solvents (Subsidiary Hazard) Group Standard 2017 HSR002644 Construction Products (Subsidiary Hazard) Group Standard 2017 HSR002653 Solvents (Subsidiary Hazard) Group Standard 2017 HSR002654 Construction Products (Subsidiary Hazard) Group Standard 2017 HSR002659 Correction Products (Subsidiary Hazard) Group Standard 2017 HSR002659 Veterinary Medicines (Non-dispersive Closed System Application) Group Standard 2017 HSR002659 Veterinary Medicines (Non-dispersive Open System Application) Group Standard 2017 HSR002661 Metal Industry Products (Subsidiary Hazard) Group Standard 2017 HSR002650 Additives Procues Chemicals and Raw Materials (Subsidiary Hazard) Group Standard 2017	HSR002624	N.O.S. (Subsidiary Hazard) Group Standard 2017
HSR002530 Cleaning Products (Subsidiary Hazard) Group Standard 2017 HSR002585 Fuel Additives (Subsidiary Hazard) Group Standard 2017 HSR002519 Aerosols (Subsidiary Hazard) Group Standard 2017 HSR002521 Animal Nutritional and Animal Care Products Group Standard 2017 HSR002506 Lubricants, Lubricant Additives, Coolants and Anti-freeze Agents (Subsidiary Hazard) Group Standard 2017 HSR002644 Polymers (Subsidiary Hazard) Group Standard 2017 HSR002647 Reagent Kits Group Standard 2017 HSR002670 Surface Coatings and Colourants (Subsidiary Hazard) Group Standard 2017 HSR002688 Photographic Chemicals (Subsidiary Hazard) Group Standard 2017 HSR002565 Embalming Products (Subsidiary Hazard) Group Standard 2017 HSR002578 Food Additives and Fragrance Materials (Subsidiary Hazard) Group Standard 2017 HSR002588 Dental Products (Subsidiary Hazard) Group Standard 2017 HSR002589 Water Treatment Chemicals (Subsidiary Hazard) Group Standard 2017 HSR002573 Fire Fighting Chemicals Group Standard 2017 HSR002573 Fire Fighting Chemicals Group Standard 2017 HSR002574 Pharmaceutical Active Ingredients Group Standard 2017 HSR002575 Pharmaceutical Active Ingredients Group Standard 2017 HSR002571 Fertilisers (Subsidiary Hazard) Group Standard 2017 HSR002571 Fertilisers (Subsidiary Hazard) Group Standard 2017 HSR002563 Solvents (Subsidiary Hazard) Group Standard 2017 HSR002564 Construction Products (Subsidiary Hazard) Group Standard 2017 HSR002565 Solvents (Subsidiary Hazard) Group Standard 2017 HSR002564 Construction Products (Subsidiary Hazard) Group Standard 2017 HSR002565 Solvents (Subsidiary Hazard) Group Standard 2017 HSR002569 Veterinary Medicine (Umited Pack Stze, Finished Dose) Standard 2017 HSR00759 Veterinary Medicines (Non-dispersive Closed System Application) Group Standard 2017 HSR002503 Additives, Process Chemicals and Raw Materials (Subsidiary Hazard) Group Standard 2017	HSR002535	Gas Under Pressure Mixtures (Subsidiary Hazard) Group Standard 2017
HSR002585 Fuel Additives (Subsidiary Hazard) Group Standard 2017 HSR002519 Aerosols (Subsidiary Hazard) Group Standard 2017 HSR002521 Animal Nutritional and Animal Care Products Group Standard 2017 HSR002666 Lubricants, Lubricant Additives, Coolants and Anti-freeze Agents (Subsidiary Hazard) Group Standard 2017 HSR002644 Polymer (Subsidiary Hazard) Group Standard 2017 HSR002647 Reagent Kits Group Standard 2017 HSR002670 Surface Coatings and Colourants (Subsidiary Hazard) Group Standard 2017 HSR002688 Photographic Chemicals (Subsidiary Hazard) Group Standard 2017 HSR002686 Embalming Products (Subsidiary Hazard) Group Standard 2017 HSR002578 Food Additives and Fragrance Materials (Subsidiary Hazard) Group Standard 2017 HSR002584 Water Treatment Chemicals (Subsidiary Hazard) Group Standard 2017 HSR002584 Water Treatment Chemicals (Subsidiary Hazard) Group Standard 2017 HSR002573 Fire Fighting Chemicals Group Standard 2017 HSR002573 Fire Fighting Chemicals Group Standard 2017 HSR002571 Pharmaceutical Active Ingredients Group Standard 2017 HSR002571 Perilisers (Subsidiary Hazard) Group Standard 2017 HSR002571 Fertilisers (Subsidiary Hazard) Group Standard 2017 HSR002584 Reflining Catalysts Group Standard 2017 HSR002584 Reflining Catalysts Group Standard 2017 HSR002584 Construction Products (Subsidiary Hazard) Group Standard 2017 HSR002584 Construction Products (Subsidiary Hazard) Group Standard 2017 HSR002584 Consistent Products (Subsidiary Hazard) Group Standard 2017 HSR002584 Corosion Inhibitors (Subsidiary Hazard) Group Standard 2017 HSR002584 Veterinary Medicine (Limited Pack Size, Finished Dose) Standard 2017 HSR100758 Veterinary Medicines (Non-dispersive Closed System Application) Group Standard 2017 HSR100759 Veterinary Medicines (Non-dispersive Open System Application) Group Standard 2017 HSR002503 Additives, Process Chemicals and Raw Materials (Subsidiary Hazard) Group Standard 2017	HSR002596	Laboratory Chemicals and Reagent Kits Group Standard 2017
HSR002519 Aerosols (Subsidiary Hazard) Group Standard 2017 HSR002521 Animal Nutritional and Animal Care Products Group Standard 2017 HSR002666 Lubricants, Lubricant Additives, Coolants and Anti-freeze Agents (Subsidiary Hazard) Group Standard 2017 HSR002644 Polymers (Subsidiary Hazard) Group Standard 2017 HSR002647 Reagent Kits Group Standard 2017 HSR002670 Surface Coatings and Colourants (Subsidiary Hazard) Group Standard 2017 HSR002688 Photographic Chemicals (Subsidiary Hazard) Group Standard 2017 HSR002565 Embalming Products (Subsidiary Hazard) Group Standard 2017 HSR002578 Food Additives and Fragrance Materials (Subsidiary Hazard) Group Standard 2017 HSR002584 Water Treatment Chemicals (Subsidiary Hazard) Group Standard 2017 HSR002573 Fire Fighting Chemicals Group Standard 2017 HSR002573 Fire Fighting Chemicals Group Standard 2017 HSR002573 Fire Fighting Chemicals Group Standard 2017 HSR002574 Pharmaceutical Active Ingredients Group Standard 2017 HSR002575 Pharmaceutical Active Ingredients Group Standard 2017 HSR002571 Ferilisers (Subsidiary Hazard) Group Standard 2017 HSR002564 Refining Catalysts Group Standard 2017 HSR002565 Solvents (Subsidiary Hazard) Group Standard 2017 HSR002564 Construction Products (Subsidiary Hazard) Group Standard 2017 HSR002569 Solvents (Subsidiary Hazard) Group Standard 2017 HSR002569 Corrosion Inhibitors (Subsidiary Hazard) Group Standard 2017 HSR002569 Corrosion Inhibitors (Subsidiary Hazard) Group Standard 2017 HSR002569 Veterinary Medicine (Limited Pack Size, Finished Dose) Standard 2017 HSR00757 Veterinary Medicines (Non-dispersive Closed System Application) Group Standard 2017 HSR00759 Veterinary Medicines (Non-dispersive Closed System Application) Group Standard 2017 HSR002503 Additives, Process Chemicals and Raw Materials (Subsidiary Hazard) Group Standard 2017	HSR002530	Cleaning Products (Subsidiary Hazard) Group Standard 2017
HSR002521 Animal Nutritional and Animal Care Products Group Standard 2017 HSR002606 Lubricants, Lubricant Additives, Coolants and Anti-freeze Agents (Subsidiary Hazard) Group Standard 2017 HSR002644 Polymers (Subsidiary Hazard) Group Standard 2017 HSR002647 Reagent Kits Group Standard 2017 HSR002670 Surface Coatings and Colourants (Subsidiary Hazard) Group Standard 2017 HSR002638 Photographic Chemicals (Subsidiary Hazard) Group Standard 2017 HSR002665 Embalming Products (Subsidiary Hazard) Group Standard 2017 HSR002578 Food Additives and Fragrance Materials (Subsidiary Hazard) Group Standard 2017 HSR002584 Water Treatment Chemicals (Subsidiary Hazard) Group Standard 2017 HSR002573 Fire Fighting Chemicals Group Standard 2017 HSR002573 Fire Fighting Chemicals Group Standard 2017 HSR002574 Parmaceutical Active Ingredients Group Standard 2017 HSR002575 Pharmaceutical Active Ingredients Group Standard 2017 HSR002571 Ferilisers (Subsidiary Hazard) Group Standard 2017 HSR002571 Ferilisers (Subsidiary Hazard) Group Standard 2017 HSR002549 Refining Catalysts Group Standard 2017 HSR002549 Construction Products (Subsidiary Hazard) Group Standard 2017 HSR002549 Corrosion Inhibitors (Subsidiary Hazard) Group Standard 2017 HSR002549 Corrosion Inhibitors (Subsidiary Hazard) Group Standard 2017 HSR00757 Veterinary Medicine (Limited Pack Size, Finished Dose) Standard 2017 HSR100759 Veterinary Medicines (Non-dispersive Closed System Application) Group Standard 2017 HSR002612 Metal Industry Products (Subsidiary Hazard) Group Standard 2017 HSR0026263 Additives, Process Chemicals and Raw Materials (Subsidiary Hazard) Group Standard 2017	HSR002585	Fuel Additives (Subsidiary Hazard) Group Standard 2017
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HSR002684 Water Treatment Chemicals (Subsidiary Hazard) Group Standard 2017 HSR002573 Fire Fighting Chemicals Group Standard 2017 HSR100425 Pharmaceutical Active Ingredients Group Standard 2017 HSR002600 Leather and Textile Products (Subsidiary Hazard) Group Standard 2017 HSR002571 Fertilisers (Subsidiary Hazard) Group Standard 2017 HSR002648 Refining Catalysts Group Standard 2017 HSR002653 Solvents (Subsidiary Hazard) Group Standard 2017 HSR002544 Construction Products (Subsidiary Hazard) Group Standard 2017 HSR002549 Corrosion Inhibitors (Subsidiary Hazard) Group Standard 2017 HSR100757 Veterinary Medicine (Limited Pack Size, Finished Dose) Standard 2017 HSR100758 Veterinary Medicines (Non-dispersive Closed System Application) Group Standard 2017 HSR100759 Veterinary Medicines (Non-dispersive Open System Application) Group Standard 2017 HSR002612 Metal Industry Products (Subsidiary Hazard) Group Standard 2017 HSR002503 Additives, Process Chemicals and Raw Materials (Subsidiary Hazard) Group Standard 2017	HSR002578	Food Additives and Fragrance Materials (Subsidiary Hazard) Group Standard 2017
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HSR100757 Veterinary Medicine (Limited Pack Size, Finished Dose) Standard 2017 HSR100758 Veterinary Medicines (Non-dispersive Closed System Application) Group Standard 2017 HSR100759 Veterinary Medicines (Non-dispersive Open System Application) Group Standard 2017 HSR002612 Metal Industry Products (Subsidiary Hazard) Group Standard 2017 HSR002503 Additives, Process Chemicals and Raw Materials (Subsidiary Hazard) Group Standard 2017	HSR002544	Construction Products (Subsidiary Hazard) Group Standard 2017
HSR100758 Veterinary Medicines (Non-dispersive Closed System Application) Group Standard 2017 HSR100759 Veterinary Medicines (Non-dispersive Open System Application) Group Standard 2017 HSR002612 Metal Industry Products (Subsidiary Hazard) Group Standard 2017 HSR002503 Additives, Process Chemicals and Raw Materials (Subsidiary Hazard) Group Standard 2017	HSR002549	Corrosion Inhibitors (Subsidiary Hazard) Group Standard 2017
HSR100759 Veterinary Medicines (Non-dispersive Open System Application) Group Standard 2017 HSR002612 Metal Industry Products (Subsidiary Hazard) Group Standard 2017 HSR002503 Additives, Process Chemicals and Raw Materials (Subsidiary Hazard) Group Standard 2017	HSR100757	Veterinary Medicine (Limited Pack Size, Finished Dose) Standard 2017
HSR002612 Metal Industry Products (Subsidiary Hazard) Group Standard 2017 HSR002503 Additives, Process Chemicals and Raw Materials (Subsidiary Hazard) Group Standard 2017	HSR100758	Veterinary Medicines (Non-dispersive Closed System Application) Group Standard 2017
HSR002503 Additives, Process Chemicals and Raw Materials (Subsidiary Hazard) Group Standard 2017	HSR100759	Veterinary Medicines (Non-dispersive Open System Application) Group Standard 2017
	HSR002612	Metal Industry Products (Subsidiary Hazard) Group Standard 2017
HSR002552 Cosmetic Products Group Standard 2017	HSR002503	Additives, Process Chemicals and Raw Materials (Subsidiary Hazard) Group Standard 2017
	HSR002552	Cosmetic Products Group Standard 2017

tin is found on the following regulatory lists

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

rosin, polymerised is found on the following regulatory lists

New Zealand Inventory of Chemicals (NZIoC)

copper is found on the following regulatory lists

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 Inventory of Chemicals (NZIoC)

New Zealand Workplace Exposure Standards (WES)

New Zealand Workplace Exposure Standards (WES)

silver is found on the following regulatory lists

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

rosin core solder decomposition products is found on the following regulatory lists Not Applicable

tin fume is found on the following regulatory lists

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

copper fume is found on the following regulatory lists

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)

New Zealand Inventory of Chemicals (NZIoC)

New Zealand Workplace Exposure Standards (WES)

Version No: 2.1.1.1

RS - 3% Silver No Clean Solder Wire #756-8875, 756-8884, 756-8893, 756-8897, 756-8913, 800-7642, 800-7649, 800-7655 (NZ)

Issue Date: 26/08/2020 Print Date: 07/09/2020

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 Workplace Exposure Standards (WES)

Hazardous Substance Location

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

Hazard Class	Quantity (Closed Containers)	Quantity (Open Containers)
Not Applicable	Not Applicable	Not Applicable

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

Tracking Requirements

Not Applicable

National Inventory Status

National Inventory	Status
Australia - AIIC	Yes
Australia Non-Industrial Use	No (tin; rosin, polymerised; copper; silver; tin fume; copper fume)
Canada - DSL	Yes
Canada - NDSL	No (tin; rosin, polymerised; copper; silver; tin fume; copper fume)
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	Yes
Japan - ENCS	No (tin; copper; silver; tin fume; copper fume)
Korea - KECI	Yes
New Zealand - NZIoC	Yes
Philippines - PICCS	Yes
USA - TSCA	Yes
Taiwan - TCSI	Yes
Mexico - INSQ	No (rosin, polymerised)
Vietnam - NCI	Yes
Russia - ARIPS	No (rosin, polymerised)
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

SECTION 16 Other information

Revision Date	26/08/2020
Initial Date	26/08/2020

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 Cancel

ACGIH: American Conference of Governmental Industrial Hygienists

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit。

IDLH: Immediately Dangerous to Life or Health Concentrations

OSF: Odour Safety Factor

NOAEL :No Observed Adverse Effect Level

LOAEL: Lowest Observed Adverse Effect Level

TLV: Threshold Limit Value

LOD: Limit Of Detection OTV: Odour Threshold Value

BCF: BioConcentration Factors

BEI: Biological Exposure Index

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RS - 3% Silver No Clean Solder Wire #756-8875, 756-8884, 756-8893, 756-8897, 756-8913, 800-7642, 800-7649, 800-7655 (NZ)

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