Material Safety Data Sheet

Section 1 - Identification of the Material and Supplier

Supplier	Newfield Group Ltd, 491 Waterloo Road, Christchurch 8042 Phone: 03 348 0799
Product Name	PERI PLUMBING SOLDER
Product Codes	PPS385G
Other Names	Peri Plumbing Solder
Recommended Uses	Plumbing Soldering
Creation Date	December 2024
This Version Issued	December 2024 and is valid for 5 years from this date

EMERGENCY CONTACT NUMBER (National Poisons Centre): 0800 764 766

Section 2 - Hazards Identification

The product isn't classified as hazardous according to the Globally Harmonized System (GHS).

But it needs to be used with flux. The flux fumes given off during soldering will irritate the eyes, nose and respiratory system. Prolonged or repeated exposure to flux fumes may cause an asthmatic reaction in sensitive individuals. Contact with flux residues may cause skin irritation and sensitisation.

Section 3 - Composition and Ingredient Information

Substance is a mixture with following general composition:

Note: Solder Wire is considered to be an article and is not subject to the Classification (Hazard Information and Packaging for Supply), because it is not hazardous as supplied. However, this product may become hazardous in use and the information included in this data sheet reflects the hazards associated with solder operations.

Ingredients	CAS No	Wt %	PEL-OSHA	H Phrases
Tin	7440-31-5	95 - 97	2.0mg/m3	NA
Silver	7440-22-4	0.1	0.01mg/m3	NA
Copper	7440-50-8	3.7 - 4.2	0.1mg/m3	NA

Occupational exposure limits: Extraction is necessary to remove fumes evolved during soldering.

Section 4 - First Aid Measures

Inhalation:	Fumes given off by fluxes may irritate the nose and throat.
	Remove patient to fresh air.
	Obtain medical attention if there is any respiratory distress.
Eye Contact Exposure:	Flux fumes may irritate the eyes. The flux may spit during soldering.
	Flush immediately with plenty of water for at least 15 minutes.
	In cases where spitting flux has entered the eye seek medical attention.
Skin Contact:	Wash hands with soap and water after handling solder.
	If any skin irritation develops seek medical attention.
Oral Ingestion:	Drink clean water and seek medical aid.

Section 5 - Fire Fighting Measures

Use carbon dioxide, dry chemicals or sand to surround the fire.

High temperatures may produce toxic fumes and vapours containing heavy metals.

Avoid breathing fumes by wearing suitable respirator and protective clothing.

Allow spill to solidify and cool.

Take care not to use water on molten metal.

If necessary, damp the spill area to prevent entry of molten metal into drains.

Section 6 - Accidental Release Measures

Personal Precautions:	Not Applicable
Environmental Precautions:	Not Applicable
Methods of Cleaning Up:	Not Applicable

Section 7 - Handling and Storage

Handling Precautions:	Do not eat, drink or smoke during use. Wash hands after handling solder wire.
Storage Precautions:	Store away from oxidizing agents and acids. Store in a cool dry area and keep in the original boxes to be stored away from food and drink.

Section 8 - Exposure Controls / Personal Protection

Respiratory Protection:	When soldering is being done fume extraction equipment should be in operation.
Eye Protection:	Safety glasses should be worn to protect the eyes.
Skin Protection:	Gloves should be worn when handling solder products.

Section 9 - Physical and Chemical Properties

Appearance:	Glossy silver metallic solid
Odour:	Odour when in melted form
Boiling Point:	Not determined
Melting Point:	About 220°C
Flash Point:	None
Vapour Pressure:	None
Solubility in Water:	Insoluble
Density:	Approx 7.310 for solder alloy
PH:	Not Applicable

Section 10 - Stability and Reactivity

Stability:	Stable under normal conditions.
Incompatible Material:	Solder will react with oxides (for example hydrogen peroxide). If personnel are exposed to these types of gasses immediate medical attention should be sought.
Hazardous Polymerization:	This will not occur.

Section 11 - Toxicological Information

Acute Toxicity:	The product does not present a risk at ambient temperatures. The flux fumes evolved during soldering will irritate the nose, throat and lungs. Repeated or prolonged exposure to flux fumes may cause an allergic affect which may lead to occupational asthma.
Chronic Toxicity:	There are no known chronic effects associated with the use of lead-free solder alloys.

Section 12 - Ecotoxicological Information

Biodegradability:	The product is not biodegradable.

Section 13 - Disposal Considerations

Wherever possible unwanted solder should be re-cycled for recovery of metal. Uncontrolled disposal should be in accordance with local and national legislation.

Section 14 - Transport Information

Transport is not regulated in accordance with: ADR, TDG (Canada), IATA, RID or IMDG.

Section 15 - Regulatory Information

Classification according to the Chemicals (Hazard Information and Packaging for Supply) Regulations.

Section 16 - Other Information

NFPA Health Hazard:	1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.
NFPA Fire Hazard:	0 - Materials that will not burn.
NFPA Reactivity:	0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
Flammability:	0 - Minimal Hazard
Physical:	0 - Minimal Hazard

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