

SAFETY DATA SHEET

Section 1. Identification of the material and the supplier.

Product: MCSMC277
Product use: HMP solder wire
Restriction of Use: Refer to Section 15.

New Zealand Supplier: Baskiville.com Ltd
Address: 16 Methven Chertsey Road
Methven
Telephone: +64 3 302 8703
Fax Number: +64 3 302 8706

**Emergency Telephone: 0800 764 766 (National Poison Centre)
0274768214**

Date of SDS Preparation: 2 December 2016

Section 2. Hazards Identification

This substance is hazardous according to the HSNO (Minimum degrees of Hazard) Regulations 2001

EPA Approval No: Metal Industry Products (Toxic [6.1 + 6.7]) – HSR002613

Pictograms



Toxic



Health Hazard



Environmental Hazard

Signal Word: Danger

HSNO Classification	Hazard Code	Hazard Statement	GHS Category
6.1C (oral)	H301	Toxic if swallowed	Category 3
6.5B	H317	May cause an allergic skin reaction	Category 1
6.6B	H341	Suspected of causing genetic defects.	Category 2
6.7B	H351	Suspected of causing cancer.	Category 2
6.8A	H360	May damage fertility or the unborn child	Category 1a
6.9A (repeated)	H372	Causes damage to the nervous and the Hematopoietic systems through repeated or prolonged dermal, inhalation or oral exposure.	Category 1
9.1A	H410	Very toxic to aquatic life with long lasting effects	Category 1
9.3B	H432	Toxic to terrestrial vertebrates.	N/A

Prevention Code	Prevention Statement
P201	Obtain special instructions before use
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust, fumes or vapours
P264	Wash exposed skin after handling
P270	Do not eat drink or smoke while using this product
P272	Contaminated clothing should not be allowed out of the workplace
P273	Avoid release into the environment
P280	Wear protective gloves and eye/protection
P281	Use personal protective equipment as required

Response Code	Response Statement
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician.
P302 + P352	IF ON SKIN: wash with plenty of soap and water
P308 + P313	If exposed or concerned: Get medical advice/attention
P314	Get medical advice/attention if you feel unwell
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P363	Wash contaminated clothing before reuse
P391	Collect spillage

Storage Code	Storage Statement
P405	Store locked up

Disposal Code	Disposal Statement
P501	Dispose of by exporting from New Zealand as waste, by depositing in a landfill or burning in an incineration plant*

* For full details see Section 13 Disposal considerations, of this document or Section 7 (Disposal) of the Group Standard Approval, Metal Industry Products (Toxic [6.1 + 6.7]) – HSR002613

Section 3. Composition / Information on Ingredients

Components	Wt.%	CAS Number
Lead	80 – 100	7439-92-1
Tin	1 – 5	7440-31-5
Silver	1 – 5	7440-22-4
Rosin	1 - 3	8050-09-7

Section 4. First Aid Measures

Routes of Exposure:

If in Eyes: DO NOT attempt to remove particles attached to or embedded in eye. Seek medical attention.

If on Skin: Remove contaminated clothing, wash exposed skin with plenty of soap and water. If person feels unwell or symptoms of skin irritation appear get medical attention.

If Swallowed: Immediately call a POISON CENTRE or doctor/physician.

If Inhaled: Move to fresh air. Keep warm and at rest. If symptoms develop or persist seek medical attention.

Section 5. Fire Fighting Measures

Hazard Type	Non- flammable
Hazards from combustion products	High temperatures may produce heavy metal dust, fumes or vapours. The flux will give rise to irritating fumes.
Suitable extinguishing media	Product is non-flammable, use extinguishing materials suitable for surrounding materials. DO NOT use water on fire if molten metal is present.
Precautions for fire-fighters and special protective clothing	Wear self-contained breathing apparatus and full protective clothing. If safe to do so, remove containers from path of the fire. Cool fire exposed containers with water spray.
HAZCHEM CODE	N/A

Section 6. Accidental Release Measures

Use protective equipment as detailed in Section 8. Follow precautions for safe handling as detailed in Section 7.

Scrape up spilled material immediately and place in suitable containers for disposal as detailed in Section 13.

If molten metal is present, evacuate area; prevent spillage from entering drains or waterways by containing with sand, earth or vermiculite. After product has cooled collect for recycling or disposal and wash area to prevent runoff/contamination.

Section 7. Handling and Storage

Precautions for handling

- Use only in well ventilated areas
- Limit all unnecessary personal contact
- Wear protective clothing when risk of exposure occurs
- Avoid physical damage to containers
- Avoid skin and eye contact.
- When using, do not eat, drink or smoke.
- Wash hands before breaks and immediately after handling the product.

Precautions for storage:

- Keep in a dry, cool, well ventilated place.
- Keep containers sealed when not in use

Section 8. Exposure Controls / Personal Protection

Workplace Exposure Standards (provided for guidance only)

Substance	TWA	STEL
Tin	2 mg/m ³	Not specified
Lead	0.15 mg/m ³	Not specified
Rosin	0.1 mg/m ³ (measured as formaldehyde)	Not specified
Silver	0.1mg/m ³	Not specified

Workplace Exposure Standard – Time Weighted Average (WES – TWA). The time-weighted average exposure standard is designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard - Short-Term Exposure Limit (WES – STEL). The 15-minute average exposure standard. Applies to any 15-minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible

tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time weighted average exposures apply.

Engineering controls

Use adequate ventilation to remove molten vapours or fumes

Personal Protection Equipment

Eyes	Safety glasses with side shields, safety goggles or a face shield should be worn to If there is a risk of splashing/spitting.
Hands and Skin	Wear suitable clothing as necessary to prevent skin contact. Use impermeable gloves.
Respiratory	If there is a risk that exposure limits may be exceeded then respiratory protection should be worn.
General	Do not eat drink or smoke while using this product and wash hands before doing so and at the end of each work shift.

Section 9. Physical and Chemical Properties

Appearance	Metallic grey wire.
Upper and Lower Explosive Limits	Not applicable
Odour	None
Odour Threshold	Not applicable
Vapour pressure	Not applicable
Vapour density	>1 (air = 1)
pH	Not applicable
Density	11.1g/cm ³
Boiling Point	Not applicable
Melting Point	301°C
Solubility	Insoluble
Flash Point	>100°C
Flammability	Not applicable
Auto-ignition	Not applicable
Partition coefficient	Not applicable
Viscosity	Not applicable
Evaporation Rate	Not applicable
Decomposition temperature	Not applicable

Section 10. Stability and Reactivity

Stability of Substance	Stable under normal temperatures and pressures and during normal use.
Conditions to avoid	Solder alloy will react with concentrated nitric acid to produce toxic fumes or nitrogen oxides

Incompatible materials	Oxidising agents, acids and bases.
Hazardous Decomposition Products	Oxides of carbon, oxides of the component metals and formaldehyde

Section 11. Toxicological Information

Acute Effects

Swallowed	Toxic if swallowed. Mixture calculation, LD ₅₀ = 148mg/kg
Dermal	N/A
Inhalation	N/A
Eye	N/A
Skin	May cause an allergic skin reaction.

Chronic Effects

Carcinogenicity	Suspected of causing cancer
Reproductive Toxicity	May damage fertility or the unborn child
Germ Cell Mutagenicity	Suspected of causing genetic defects.
Aspiration	N/A
STOT/SE	N/A
STOT/RE	Causes damage to the nervous and the Hematopoietic systems through repeated or prolonged dermal, inhalation or oral exposure.

Section 12. Eco-toxicological Informational

This product is not known to be hazardous to the environment

HSNO Classes 9.1A = Very toxic to aquatic life with long lasting effects
 9.3B = Toxic to terrestrial vertebrates.

Persistence and Degradability	This product has high persistence and low degradability.
Bioaccumulation	This product does bio-accumulate
Mobility in Soil	This product has a low mobility in soil
Other adverse effects	N/A

Tin (CAS: 7440-31-5)

24hr, LC₅₀, Fish (*Oncorhynchus mykiss*) = 78mg/L

48hr, LC₅₀, Crustacean (*Daphnia magna*) = 55mg/L

72hr, EC₅₀, Algal (Marine diatom) = 0.2mg/L

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Silver (CAS: 7440-22-4)

96hr, LC₅₀, Fish (*Oncorhynchus mykiss*) = 0.01mg/L

Lead (CAS: 7439-92-1)

96hr, LC₅₀, Fish (*Oncorhynchus mykiss*) = 1.17mg/L

EC₅₀, Crustacean (*Daphnia*) = 0.45mg/L

96hr, EC₅₀, Algal (*Selenastrum capricornutum*) = 2.655mg/L

LD₅₀, Terrestrial vertebrate (*Bos Taurus*) = 150mg/kg

Rosin (CAS: 8050-09-7)

48hr, EC₅₀, Crustacean (*Daphnia magna*) = 3.8mg/L

Section 13. Disposal Considerations

Disposal Method:

- Export from New Zealand as waste
- Deposit in a landfill, providing it will not come into contact with any explosive or oxidising substances or an ignition source and that it renders the product non-hazardous.
- Deposit at an incineration plant providing it renders the product non-hazardous.
- Discharging into the environment after the product has been treated in a way that neither the product nor its components are bio-accumulative or not rapidly degradable and providing that it does not exceed any exposure limits.

For full details see Section 7 (Disposal) of the Group Standard Approval, Metal Industry Products (Toxic [6.1 + 6.7]) – HSR002613

Section 14. Transport Information

This product is not classified as a Dangerous Good for transport in New Zealand; NZS 5433:2012

Section 15. Regulatory Information

This substance is hazardous according to the HSNO (Minimum Degrees of Hazard) Regulations 2001

EPA Approval Code: HSR002613

HSNO Classification: 6.1C (oral), 6.4A, 6.5B, 6.6B, 6.7B, 6.8A, 6.9A (repeated), 9.1A, 9.3B

HSNO Controls	Trigger Quantity
Approved Handler	Any quantity
Location Certificate	Not required
Signage	100kg
Emergency Response Plan	100kg
Secondary Containment	100kg

Section 16. Other Information

Glossary

EC ₅₀	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority.
HSNO	Hazardous Substances and New Organisms.
LC ₅₀	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD ₅₀	Lethal dose to kill 50% of test animals/organisms
LEL	Lower Exposure Limit
OSHA	American Occupational Safety and Health Administration
TEL	Tolerable Exposure Limit
TLV	Threshold limit Value – an exposure limit set by responsible authority
UEL	Upper Exposure Limit
WES	Workplace Exposure Limit

Disclaimer

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