CASWELL INC

Safety Data Sheet
Casweld PM

SECTION 1: Identification

1.1 Product identifier

Product name	Casweld PM
Product number	CWPM
Brand	Caswell

1.4 Supplier's details

		PRODUCT SUPPLIED IN AUSTRALIA BY
		CASWELL AUSTRALIA P/L
Name	Caswell Inc	
Address	7696 Route 31 Lyons, NY 14489 USA	Factory1, 51 ELM PARK DRIVE HOPPERS CROSSING 3029 VICTORIA
Telephone	315 946 1213	PHONE 03 9741 7103
Fax	315 946 4456	EMERGENCY NUMBER **000**
email	sales@caswellplating.com	

1.5 Emergency phone number(s)

Office Hours (9-4ET): 315 946 1213
24 Hour: CHEMTEL US# 1-800-255-3924 Intl# +01-813-248-0585

SECTION 2: Hazard identification

General hazard statement
Not considered a hazard in its solid form. Hazards are from fumes during use and heat.

2.1 Classification of the substance or mixture

GHS classification in accordance with: (EC) No 1272/2008 (CLP)
- Acute toxicity, inhalation (chapter 3.1), Cat. 2
- Germ cell mutagenicity (chapter 3.5), Cat. 2
- Carcinogenicity (chapter 3.6), Cat. 1B
- Toxic to reproduction (chapter 3.7), Cat. 2
- Specific target organ toxicity, repeated exposure (chapter 3.9), Cat. 1
- Hazardous to the aquatic environment - acute hazard (chapter 4.1), Cat. 1
- Hazardous to the aquatic environment - long-term hazard (chapter 4.1), Cat. 1

2.2 GHS label elements, including precautionary statements

Pictogram

Signal word	**Danger**

Hazard statement(s)

H330	Fatal if inhaled
H341	Suspected of causing genetic defects
H350	May cause cancer
H361	Suspected of damaging fertility or the unborn child
H372	Causes damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

Precautionary statement(s)

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P271	Use only outdoors or in a well-ventilated area.
P284	[In case of inadequate ventilation] wear respiratory protection.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P310	Immediately call a POISON CENTER/doctor/...
P320	Specific treatment is urgent (see … on this label).
P403+P233	Store in a well ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container to …
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P264	Wash … thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P314	Get medical advice/attention if you feel unwell.
P273	Avoid release to the environment.
P391	Collect spillage.

SECTION 3: Composition/information on ingredients

3.1 Substances

Hazardous components

1. Zinc (foil rod, slug)

Concentration	20 - 30 %
EC no.	231-175-3
CAS no.	7440-66-6
Index no.	030-001-01-9

2. TIN

Concentration	35 - 45 %
CAS no.	7440-31-5

3. CADMIUM

Concentration	30 - 40 %
EC no.	231-152-8
CAS no.	7440-43-9
Index no.	048-011-00-X

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.
If inhaled	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash off with soap and plenty of water. Get medical attention if symptoms occur.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Personal protective equipment for first-aid responders
See section 8

4.2 Most important symptoms/effects, acute and delayed
not established

4.3 Indication of immediate medical attention and special treatment needed, if necessary
not established

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media
Use water spray, alcohol resistant foam, dry chemical or carbon dioxide. Welding sparks can ignite combusible and flammable materials. Use media recommended for burning material.

5.2 Specific hazards arising from the chemical
Cadmium oxides, tin oxides, carbon oxides, zinc oxides

5.3 Special protective actions for fire-fighters
Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
See section 8

6.2 Environmental precautions
See section 13

6.3 Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Sweep up and shovel. Do not flush with water. Keep in suitable, closed containers for disposal.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

1. Tin, inorganic compounds (except oxides) (as Sn) (CAS: 7440-31-5)
PEL (Inhalation): 2 mg/m3 (OSHA)
OSHA Annotated Table Z-1, www.osha.gov

2. Tin, inorganic compounds (except oxides) (as Sn) (CAS: 7440-31-5)
PEL (Inhalation): 2 mg/m3; also tin oxide; except SnH4 (Cal/OSHA)
OSHA Annotated Table Z-1, www.osha.gov

3. Tin, inorganic compounds (except oxides) (as Sn) (CAS: 7440-31-5)
REL (Inhalation): 2 mg/m3; except tin oxides (NIOSH)
OSHA Annotated Table Z-1, www.osha.gov

4. Tin, organic compounds (as Sn) (CAS: 7440-31-5)
PEL (Inhalation): 0.1 mg/m3 (OSHA)
OSHA Annotated Table Z-1, www.osha.gov

5. Tin, organic compounds (as Sn) (CAS: 7440-31-5)
PEL (Inhalation): 0.1 mg/m3, (ST) 0.2 mg/m3 (Cal/OSHA)
OSHA Annotated Table Z-1, www.osha.gov

6. Tin, organic compounds (as Sn) (CAS: 7440-31-5)
REL (Inhalation): 0.1 mg/m3цxcept Cyhexatin (NIOSH)
OSHA Annotated Table Z-1, www.osha.gov

7. Cadmium (as Cd); see 1910.1027 (CAS: 7440-43-9)
PEL (Inhalation): 0.005 mg/m3, see Sections 1532 & 5207 (Cal/OSHA)
OSHA Annotated Table Z-1, www.osha.gov

8. Cadmium (as Cd); see 1910.1027 (CAS: 7440-43-9)
REL (Inhalation): Ca, See Appendix A (NIOSH)
OSHA Annotated Table Z-1, www.osha.gov

8.2 Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

8.3 Individual protection measures, such as personal protective equipment (PPE)

Pictograms

Eye/face protection

Welder's helmet or face shield with color absorbing lenses. Shield and filter to provide protection from UV radiation, infrared and molten metal approved to standard EN379. Filter shade to be a minimum of shade 9.

Skin protection

Heat resistant protective clothing. Safety boots, apron, arm and shoulder protection.

Body protection

Type A or B gloves. Type B recommended when high dexterity is required.

Respiratory protection

Use an air purifying dust respirator when welding or brazing in a confined space, or when local exhaust or ventialtion is not sufficient to keep exposure values within safe limits.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance/form (physical state, color, etc.)	Solid
Odor	None
Odor threshold	Not Available
pH	Not Available
Melting point/freezing point	1560-2000 deg F
Initial boiling point and boiling range	Not Available
Flash point	Not Available
Evaporation rate	Not Available
Flammability (solid, gas)	Not Available
Upper/lower flammability limits	Not Available
Vapor pressure	Not Available
Vapor density	Not Available
Relative density	6-9 g/cm3
Solubility(ies)	Insoluble
Partition coefficient: n-octanol/water	Not Available
Auto-ignition temperature	Not Available
Decomposition temperature	Not Available
Viscosity	Not Available
Explosive properties	Not Available
Oxidizing properties	Not Available

SECTION 10: Stability and reactivity

10.1 Reactivity
Reactive with oxidizing agents, acids, alkalis

10.2 Chemical stability
Stable

10.5 Incompatible materials
Incompatible with Bromine, Bromine Trifluoride Chlorine, Chlorine Trifluoride + Carbon, Water + Cupric Nitrate, Sodium Peroxide, Water Vapour + Carbon Tetrachloride, Disulfur Dichloride, fused Ammonium Nitrate, Potassium Dioxide, Tellurium, Turpentine, Acids (Nitric Acid, Sulfuric Acid, Hydrochloric Acid, Acetic Acid), caustic Alkali, Iodine Bromide. In presence of water vapour, the interaction between Tin and Carbon Tetrachloride is violent. The interaction between Tin and Disulfur Dichloride is violent. Tin reacts violently with Iodine Bromide

10.6 Hazardous decomposition products
When this product is used in a welding process, hazardous decomposition product would include those from volatilization, reaction or oxidation of the material listed in section 3 and those from the base metal and coating. The amount of fumes generated from this product varies with welding parameters and dimensions. Refer to applicable national exposure limits for fume compounds, including those exposure limits for fume compounds found in section 3. Reasonably expected gaseous products would include carbon oxides, nitrogen oxides and ozone. Air contaminants around the welding area can be affected by the welding process and influence the composition and quality of fumes and gases produced.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity
Tin: May cause skin irritation. May cause eye irritation due to mechanical action. Inhalation of tin dust may cause respiratory tract and mucous membrane tract irritation due to mechanical action. It is poorly absorbed from the digestive tract. It can cause gastrointestinal tract disturbance which may be irritant or astringent on the stomach. Signs and symptoms of zinc exposure are central nervous system depression, cough, chest pain and difficulty breathing. Exposure to high airborne concentrations can cause anesthetic effects. Cadmium: Damage to the lungs. Kidney injury may occur.

LD/LC50 Values that are relevant for classification
Zinc 7440-66-6 Oral LD50 630 mg/kg (rat)

LD/LC50 Values that are relevant for classification
Cadmium 7440-43-9 Oral LD50 225 mg/kg (rat) Inhalation LC50 25 mg/m3 (30h) (rat) LC50 1.0 µg/l (96h) (fathead minnow)

Carcinogenicity
Carcinogenic to humans (Cadmium) (Classified 1 by IARC and K by NTP).

STOT-repeated exposure
Overexposure to welding fumes may affect pulmonary function. Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs. Excessive inhalation of zinc oxide fumes may produce symptoms known as “Zinc Shakes” which are flu-like and usually cease when the individual is removed from the source. Prolonged or repeated exposure can cause vomiting, diarrhoea, lung

irritation. Severe overexposure of Cadmium can result in death. Carcinogenic to humans (Cadmium) (Classified 1 by IARC and K by NTP).

SECTION 12: Ecological information

Toxicity
No available data. Do not allow undiluted product or large quantities to reach ground water, water course or sewage systems. Do not allow product to be released in the environment without proper governmental permits.

SECTION 13: Disposal considerations

Disposal of the product
Consult appropriate federal and local regulations for disposal. Empty containers are subject to the same regulations.

Disposal of contaminated packaging
Consult appropriate federal and local regulations for disposal. Empty containers are subject to the same regulations.

SECTION 14: Transport information

DOT (US)
Not dangerous goods

IMDG
Not dangerous goods

IATA
Not dangerous goods

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

Massachusetts Right To Know Components
Chemical name: Zinc
CAS number: 7440-66-6

New Jersey Right To Know Components
Common name: ZINC
CAS number: 7440-66-6

Pennsylvania Right To Know Components
Chemical name: Zinc
CAS number: 7440-66-6

New Jersey Right To Know Components
Common name: TIN
CAS number: 7440-31-5

Pennsylvania Right To Know Components
Chemical name: Tin
CAS number: 7440-31-5

Massachusetts Right To Know Components
Chemical name: Cadmium
CAS number: 7440-43-9

New Jersey Right To Know Components
Common name: CADMIUM
CAS number: 7440-43-9

Pennsylvania Right To Know Components
Chemical name: Cadmium
CAS number: 7440-43-9

California Prop. 65 components
Chemical name: CADMIUM
CAS number: 7440-43-9
05/01/1997 - Developmental, male
10/01/1987 - Cancer

HMIS Rating

Casweld PM	
HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	D

NFPA Rating

SECTION 16: Other information

16.1 Further information/disclaimer

DISCLAIMER: The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigation to determine the suitability of information for their particular purposes. In no event shall Caswell Inc be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, whatsoever arising, even if Caswell Inc has been advised of the possibility of such damages.