

M.S.D.S. - SOLDER PASTE **Cont'd.**

OTHER INFORMATION **Cont'd.**

<i>Risk Phrases:</i>	R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
	R33	Danger of cumulative effects.
	R34	Causes burns.
	R36/37/38	Irritating to eyes, respiratory system and skin.
<i>Safety Phrases:</i>	S7/8	Keep container tightly closed and dry.
	S13	Keep away from food, drink and animal feeding stuffs.
	S20/21	When using, do not eat, drink or smoke.
	S28	After contact with skin, wash immediately with plenty of soap and water.

CONTACT POINT:

Consolidated Alloys,
Melbourne (03) 9359-5811 (Business Hours)
Melbourne (03) 9878-3597 (After Hours – 24 hours.)

M.S.D.S. - SOLDER PASTE Cont'd.

SAFE HANDLING INFORMATION

Storage and Transport: Check that containers are clearly labelled. Packaging as recommended by manufacturer. Store in original containers. Store in a cool well-ventilated area. Store away from incompatible materials. Keep containers securely sealed. Protect containers against physical damage. Check regularly for spills and leaks.

Spills and Disposal: Contain spill with sand, earth or vermiculite. Collect recoverable product into labelled containers for recycling. Collect residues and seal in labelled drums for disposal. Wash spill area with detergent and water. After clean up operations, decontaminate and launder all protective clothing and equipment before storing and re-using. If contamination of drains or waterways occurs as a result of the above actions, advise emergency services.

Fire/Explosion Hazard: Non Combustible. Slight hazard when exposed to heat. Will not burn but heat produces toxic fumes. Decomposes on heating and produces toxic fumes of chlorides, nitrogen oxides (Nox) and zinc oxide. Heating may cause expansion or decomposition leading to violent rupture of containers.

Avoid contact with halogens such as chlorine, bromine trifluoride, iodine trifluoride and potassium chlorate. Avoid contact with turpentine, hot water and ammonium nitrate.

OTHER INFORMATION:

Food or drink should not be consumed nor cosmetics applied in the workplace. Develop good personal hygiene by always washing well after contact and before eating or drinking. Showering and changing clothes at end of work shift is recommended.

Since empty containers may retain product residues/vapours, all labelled hazard precautions must be observed.

M.S.D.S. - SOLDER PASTE Cont'd.**HEALTH HAZARD INFORMATION Cont'd.**

ADVICE TO DOCTOR: Test systematically. For ingestion, consider gastric lavage.

Lead: Exposure to high levels of airborne or ingested lead may produce symptoms of anaemia, insomnia, weakness, constipation, nausea and abdominal pain. Women of child-bearing age should avoid exposure to lead due to postnatal effects.

PRECAUTIONS FOR USE**Exposure Standards:**

	<u>N.O.H.S.C. TWA:</u>
Tin	2.0 mg/m ³
Lead	0.15 mg/m ³
Zinc Chloride	1.0 mg/m ³
Ammonium Chloride	10.0 mg/m ³

Engineering Controls: To avoid inhalation of fume - provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure levels below TWA's. Use good occupational work practice. When handling, DO NOT eat, drink or smoke. Observe manufacturer's storing and handling recommendations.

Personal Protection: An approval dust/fume respirator should be worn when TWA values may be exceeded. Avoid contact with skin and eyes. Safety glasses or face masks recommended. An eye bath should be located near work site. Impervious gloves and protective clothing should be worn and kept clean. Work clothes should be laundered separately. Always wash hands with soap and water after handling.

Flammability: Non combustible. Will not burn but heat may produce toxic fumes.

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HEALTH HAZARD INFORMATION

HEALTH EFFECTS:

(Zinc Chloride – irritant/corrosive)

<i>Acute:</i>	Swallowed:	The material is harmful and corrosive to the gastro-intestinal tract if swallowed. Considered an unlikely route of entry in commercial/industrial environments.
	Eye:	The material is corrosive to the eyes and is capable of causing severe damage with loss of sight.
	Skin:	The material is corrosive to the skin and is capable of causing skin reactions from repeated exposures over long periods.
	Inhaled:	The material is mildly irritating to the upper respiratory tract. Inhalation of vapours are more likely at higher than normal temperatures.
<i>Chronic:</i>	As above.	

FIRST AID:

	Swallowed:	If vomiting is not spontaneous and if more than 15 minutes from hospital, induce vomiting.
	Eye:	If this product comes in contact with the eyes immediately hold the eyes open and wash continuously for at least 15 minutes with fresh running water. Ensure irrigation under eyelids by occasionally lifting the upper and lower lids. Transport to hospital, or doctor, without delay.
	Skin:	If product comes in contact with the skin immediately remove all contaminated clothing, including footwear (after rinsing with water). Wash affected areas thoroughly with soap and water. Seek medical attention in event of irritation.
	Inhaled:	If fumes or combustion products are inhaled remove person to fresh air. Lay patient down, keep warm and rested. If breathing is shallow or stopped, ensure clear airway and apply resuscitation. Transport to hospital or doctor.



Consolidated Alloys

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MATERIAL SAFETY DATA SHEET

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"MATERIAL HAZARDOUS ACCORDING TO CRITERIA OF WORKSAFE AUSTRALIA"

PRODUCT IDENTIFICATION

Product Name:	SOLDER PASTE
Other Names:	KEMTEX B916 'Tinning' Compound
Manufacturer's Product Code:	Not Applicable
UN Number:	1760
Dangerous Goods Class & Subsidiary Risk:	8
Hazchem Code:	2X
Poisons Schedule:	6
Use:	Tinning/soldering of metals

PHYSICAL DESCRIPTION/PROPERTIES:

Appearance:	Grey Paste
Boiling Point/Melting Point:	N/E
Vapour Pressure:	N/E
Specific Gravity:	Approx. 3
Flashpoint:	Not Applicable
Flammability Limits:	Not Applicable
Solubility in Water:	Partly

INGREDIENTS:

<u>CHEMICAL NAME:</u>	<u>CAS NO:</u>	<u>PROPORTION:</u>
METAL:		
Tin)	7440-31-5	Variable
Lead) Solder Powder	7439-92-1	Variable
Zinc Chloride	7646-85-7	Approx. 10%
Ammonium Chloride	12125-02-9	<5%

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